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ORAL HYGIENE

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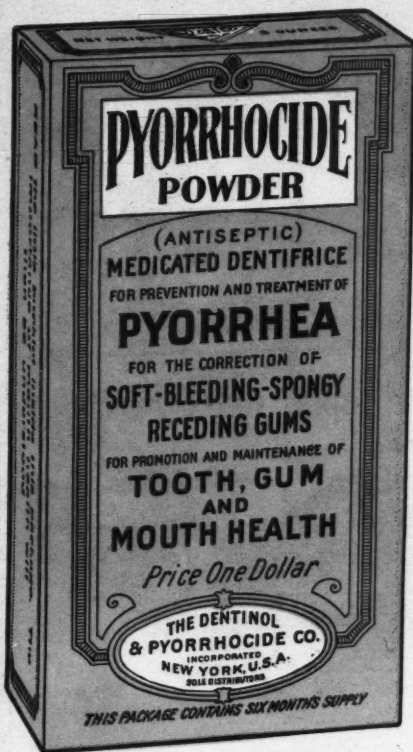
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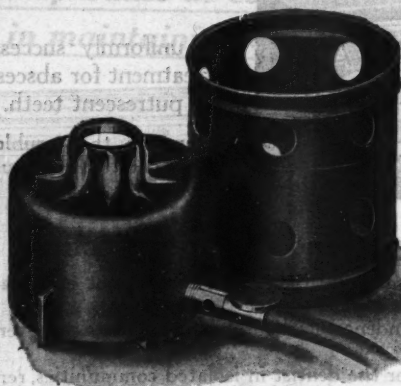
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ORAL HYGIENE

November, 1923

COVER DESIGN, "THERE IS A LIGHT IN THE WINDOW," REPRODUCED IN SIX COLORS BY THE AQUATINT PROCESS FROM A PASTEL BY HY. HINTERMEISTER.

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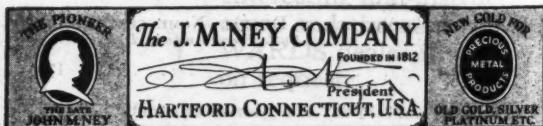
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NOVEMBER, 1923

VOL. XIII, No. 11



From the Cleveland Plain Dealer.

"Here is the result of twenty years of active practice, almost without a vacation," said An Old Practitioner, in June ORAL HYGIENE.

"In looking over my for 27 years I find I have inserted 36,288 alloy fillings, 30,216 gold fillings and inlays, made 6,716 plates, extracted 16,000 teeth and have to show for my life work, a home to live in, free from incumbrance, valued at \$10,000, land valued at \$12,000, \$5,000 in the bank.

"I am respected as a citizen in the community in which I live, as I have filled minor positions in clubs, societies and as mayor of the city, have a good pal as wife, two children—a son a sophomore in college and a daughter a sophomore in high school, and yet I am beginning to slip in health, and the amount I have saved by hard work would not keep my wife from seeking employment and my children would have to leave school. Does it pay?"

"Do

Dr. Davis was

Editor ORAL HYGIENE:



ENJOYING your magazine continually, I am interested in your first article of the current month [June] "Does It Pay?" by An Old Practitioner. And I am particularly curious to know more about the income from the work recorded during the 27 years' practice. Figures are given as 36,288 alloy fillings. These ought to average \$1 each, surely. 30,216 gold fillings certainly should bring an average of \$3 apiece. \$15 is not an unreasonable figure for any kind of a plate and never was. So the 6,716 of these ought to have returned a substantial amount. From 50 cents to \$1 always was as low as any kind of extracting could be done for, even in the old days and at 16,000 extractions, averaging them at 75 cents each, nets a large amount.

Now the total amount that should have been received at these extremely low figures are:

36,288 alloy fillings at \$1	
.....	\$36,288
30,216 gold fillings and inlays at \$3	90,848
6,716 plates averaging \$15	90,740
16,000 extractions at 75 cents	12,000

\$229,876

Pay?"

know why it doesn't

Now this is a pretty good-sized amount of work. I wish I'd had a crack at so much of it. In the past 27 years one ought to have been amply able to bring up a family on \$5,000 a year and not one man in 150,000 had that salary in those years. So that allowing this amount of expenditure for that period of 27 years, or \$135,000 deducted from the infinitesimal sum that the work should have brought, we find \$94,676 which might have been saved.

Now it is not my purpose to question anything, nor is it my purpose to blame if what might have been saved was not saved. Rather goes my best brotherly sympathy. Because Heaven knows how difficult it is to save and Heaven knows, moreover, how next to impossible it was during those past 27 years to manage to hang onto and keep one's savings after they had accumulated, what with banks going up occasionally, and assessing innocent stockholders 100%, as I met up with once, bucket shops running full tilt, and the mails used by unscrupulous



persons to defraud by fake stocks, it took a lucky man to have run through those years and come out with the \$27,000 here saved.

But it still seems a pity that such a large volume of business did not return more and perhaps sometime my esteemed brother will, through ORAL HYGIENE, tell us more of the business side of the case so as to help the rest of us poor fellows to save our pennies.

With great respect for your able magazine and the writer aforesaid,

Very cordially a
brother practitioner,
R. I. DAVIS, D. M. D.
Chelsea, Mass.



Dental Services in a State Industrial School for Boys

By PAUL A. WIEBE, East Lake, Alabama

Resident Nurse in Charge of Hospital, Alabama Boys' Industrial School

THIS institution, located near the Magic City, Birmingham, Ala., is taking care of some 400 boys ranging in age from 8 to 18 years. The School receives boys committed by the juvenile or probate courts throughout the State, such boys being committed for dependency, parental neglect, truancy or delinquency in general.

While a certain percentage of these boys, perhaps, are criminally inclined and a very few of them may even be termed as vicious—yet by far the greatest number of the boys are here because of lack of proper home or parental care and training. I do wish to impress the reader with the fact, therefore, that the vast majority of our boys are by no means “bad” boys and the problem of their training and education, instead of being hopeless and impossible, means to the Superintendent and those who are associated with him and who have faith in boys, an encouraging and interesting task, full of opportunities for lending a helping hand.

There was a time when schools of this kind were called

reform schools and not so very many years ago it was believed necessary to treat the inmates of such institutions with stern and harsh tactics, with a severe discipline prevailing.

Such methods have changed entirely and in most of these schools today the honor system prevails, rules are not as plentiful and the discipline is greatly relaxed.

In this school, the boys enjoy an unusually large amount of freedom and restraints are very few. The School can justly boast of having one of the very finest boys' concert bands in the United States which has travelled into many states and the boys of which have been highly praised and complimented, among others, by John Philip Sousa, the march king.

Besides the fine military band, which is the pride of the good folks throughout the State and of which the city of Birmingham is proud, there are many industrial departments, such as manual training shop, printing department, shoe-shop, machine shop, tailor shop, steam laundry, dairying and farm departments.

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School cares for about 400 boys we may naturally expect such an institution to have a reasonably well-equipped hospital, since the School is located about 7 or 8 miles out of Birmingham.

Early in 1921, during the administration of the then Governor Thomas E. Kilby, our hospital was equipped with modern appliances and among those instruments and appliances, I had asked for an equipment for a dental clinic.

This dental equipment was purchased for about \$1100.00. There was no appropriation for a visiting or resident dental surgeon, but I felt certain that if we could get the dental chair and equipment, I might be able to get a sufficient number of dental surgeons in Birmingham who would donate some services.

Since November 1920, I have been fortunate in having had the wholehearted help and co-operation of my friend, Dr. Herbert Henry Bryans, dental surgeon of Birmingham, who was the first dentist to interest himself in our boys and who, prior to our dental equipment being installed, came out here regularly to attend these boys, bringing his own instruments at every visit to the School.

Dr. Bryans also made up the list of all necessary items to equip a dental clinic and then, when we were equipped—Dr. Bryans went before the Birmingham District Dental Society, explaining that the School did not have the funds or an appropriation to carry

on dental work, and that we did have all necessary equipment, but needed some volunteers who would be willing to come out to the School, say one half-day each month, working for the boys.

The President of the Society appointed a committee, consisting of three dental surgeons, Dr. H. H. Bryans, Dr. Thos. E. Hand and Dr. James F. Hardin, who were authorized to go ahead and co-operate with us in any way they deemed expedient.

First of all, these three dental surgeons came out here and spent one day examining and classifying all of the boys as to dental services needed and a record was started.

Then many of the best dentists were interviewed and invited to help us and right here I do wish to mention gratefully the fact that wherever I went, I was always treated with the utmost courtesy and kindness. In nearly every instance, when the question was asked whether the Doctor would kindly help a little, it was "Yes, certainly, I'll help those boys!" From a little beginning, in 1921, we now number among our staff of dentists, 24 of the very best in Birmingham, all of whom donate their services, each being willing to come out here a half-day every month when called upon.

Dr. J. A. Blue each year holds his post-graduate clinic in block anesthesia here, but, during the last clinic he found very few extraction cases here, due to the splendid co-opera-

tion of the other men who had been so faithful in their work of preserving teeth for our boys.

On the other hand, every dentist, after his first visit here, is usually always glad to come back, because those men tell me that they are impressed with the gentlemanly and courteous behavior and conduct of the boys. The Superintendent frequently explains to the boys in chapel that the dentists are donating their services and as a result whenever a boy has been attended by a dentist here, the boy steps out of the chair and says, "I thank you," or "I appreciate your kindness."

Then, last April, during the State convention of the dental society, our Boys' Band went down to the Tutwiler Hotel on the evening of the Annual Banquet and rendered music throughout the evening, thereby, in a little measure, expressing our gratitude.

Since the establishment of our Dental Clinic the following work has been accomplished:

Number of boys examined by dental surgeons.....	1444
Number of boys attended by dental surgeons.....	807
Extraction cases, number of boys attended.....	342
Number of teeth extracted....	607
Cases of fillings, number of boys attended.....	406
Total number of cavities filled.	1699
Amalgam.....	1439
Cement base with amalgam.	125
Cement.....	35
Silicates.....	90
Temporary.....	6
Dental X-Ray examinations, number of boys attended.....	41

(X-Ray examinations done at dentists' offices).

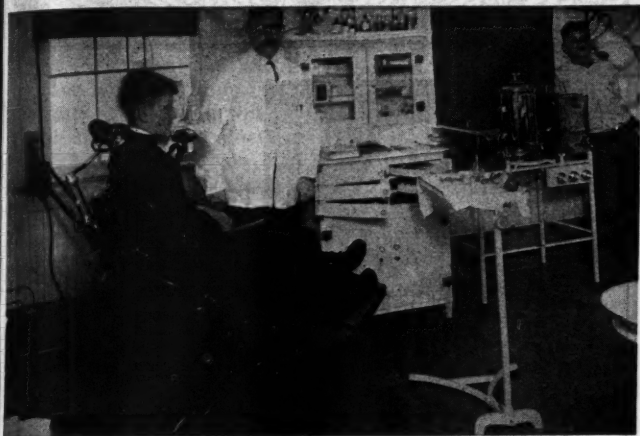
Orthodontia, number of boys attended.....	1
(This boy cared for by Dr. McDaniel at his office weekly)	
Temporary partial dentures, (done at dentists' offices) number boys.....	3
Treatments for pyorrhea, number of boys attended.....	11

I was instructed by Dr. Bryans, Dr. Monette and Dr. Fowlkes how to clean teeth and whenever the work of the hospital is not pressing, I can always keep busy by administering dental prophylaxis and the number of boys who received dental prophylaxis was 318.

It is confidently believed that this institution will deserve an honor position among schools of its kind in the United States, in the amount of dental services rendered to its boys, particularly when it is remembered that all such services are donated, the School enjoying the whole-hearted co-operation of the very best dentists of the Magic City. The good men who are making this work possible are the best men in Birmingham, most of them specialists in some branch of dentistry, but who are willing to come out here to do anything necessary or indicated.

In order to keep the good work up, Dr. Bryans and I last year devised and managed a dental contest among 400 boys of the school. Prizes were offered for the boys who presented the cleanest teeth for inspection. The contest was by elimination, all boys

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being lined up and then those whose teeth were not clean were eliminated, until ten boys were left in line from which the prize-winners, from first to tenth prize had to be selected. Five dentists acted as judges and they all agreed that it was a most difficult task, because nearly all of the boys had fairly clean teeth and then, when it came to selecting best, second best, etc., it was necessary to use a disclosing solution in order to find spots. We have just held our second annual dental contest on August 4th, and this time there were seventeen prizes.

Lectures on the care of the teeth are given by some of the dentists to all of the boys in the School assembled in Chapel.

Every newly admitted boy is inoculated against typhoid fever, is vaccinated against smallpox, examined for hookworm and other intestinal parasites, is given a general examination and when occasion warrants it, referred to one of the many specialists who are ever willing to serve—also, every new boy is examined by Dr. H. H. Bryans, who classifies the boy for dental services needed and who looks after all extraction cases.





The late Queen Victoria of England, long served by Dr. Evans, is mentioned in this *Boston Transcript* tribute to dentistry. The English royal family required so much of his time that he furnished a room in Windsor Castle with a chair and dental outfit.

(c) *International*

The Dentist and His Calling

AMERICAN dentists have long been recognized as leaders in the development and practice of their profession. The Baltimore College of Dental Surgeons, established in 1839, was the first institution of its kind in the world. It was in the United States that dentistry was first recognized as a profession which should be safeguarded by suitable legislation to ensure the requisite knowledge and proficiency on the part of its practitioners. In 1841, a law was passed in Alabama requiring the examination of persons

intending to practice dentistry. The southern state thus took the lead in establishing regulations of a kind that are now universal in civilized countries.

It was only a few years later that here in Boston, Dr. William T. G. Morton, one of the early graduates of the first dental school, demonstrated at the Massachusetts General Hospital that ether might be used to eliminate the suffering that had previously accompanied surgical operations. In his work as a dentist he had used ether as a local anesthetic. It suggested the larger use that was to become one of the greatest

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boons ever conferred upon suffering humanity. The American dentist early went far afield. In other lands, he found patrons among men and women in high station. The story of the assistance given the Empress Eugenie by her American dentist, Dr. Evans*, when she was forced to seek safety in flight following the disaster at Sedan, is familiar.

The leadership which American dentists early attained has since been held. The dentist of today is not disposed to rest upon the reputation earned by the men of past years. It is significant that in the proceedings of the Massachusetts Dental Society, now holding its annual convention in Boston, emphasis is placed upon the need of better means of enabling the practitioner to share in the increased knowledge due to the work of men engaged in research in dental and allied sciences. Dr. William Rice, the president, in his annual address, expressed the belief that the society had an important educational function to fulfill. He offered practical suggestions for the carrying out of the purpose in view, and they were followed by action by the convention. It is evident that great as have been the achievements in dentistry, the members of the

profession are alive to its possibility of increased usefulness in promoting the general health and well-being of the people.

In recent years there has been growing appreciation of the relations that may exist between the condition of his teeth and the health of the individual. It has been shown that ailments otherwise unexplainable as far as the cause is concerned can often be traced to the infection that comes sometimes with decaying teeth. As in all such matters it may be that there is disposition on the part of some of the students of the subject to exaggerate the influence of the conditions that they describe but that does not alter the fact that the relationship exists. It suggests great possibilities for the expansion of the benefits flowing from dental science and it is thus additionally a matter of common interest and concern to find that the Massachusetts Dental Society proposes to aid in giving its members increased opportunity for keeping up with the scientific progress as it bears upon the practice of their profession.

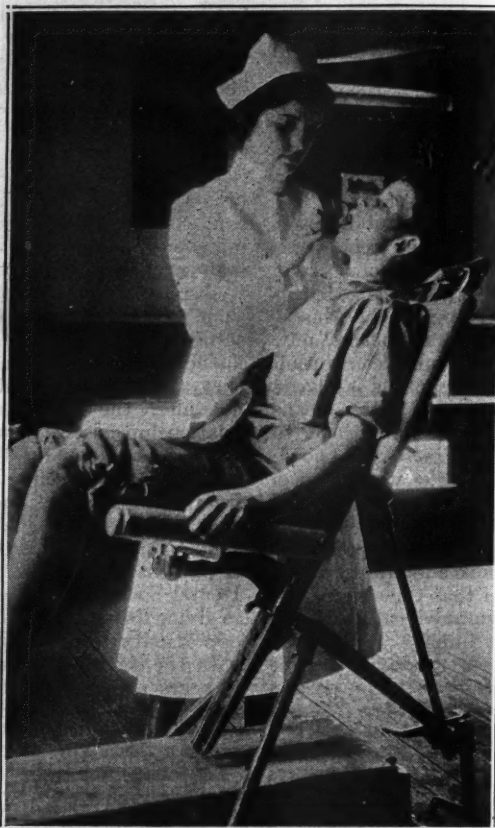
*See "Dr. Thomas W. Evans—Dentist to the Crowned Heads of Europe," by Eugene S. Talbot, M.D., D.D.S., p. 850, June 1921 ORAL HYGIENE.





A New Profession*

By C. J. HOLLISTER, D.D.S., Harrisburg, Pa.
Chief, Dental Division, Pennsylvania Department of Health



Dental Hygienist at Work



It is generally accepted that the condition of the teeth is a prime factor (often the

deciding one) in individual health and efficiency.

*From *The Listening Post* a publication of the Pennsylvania Department of Health.

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Good teeth mean satisfactory mastication, normal digestion, proper assimilation.

Bad teeth mean insufficient mastication, retarded digestion, incomplete assimilation, malnutrition, plus germ breeding cavities, abscessed roots, which cause rheumatism and kindred defects—bad breath and disfigurement.

And because children handicapped by ill-kept teeth are often backward in their school progress, to the added expense of school maintenance, the care of the teeth becomes a matter of public concern.

As the fact stands, 70 per cent of Pennsylvania's school children have tooth defects; it would be difficult to make a definite estimate as to the additional cost to the schools, on account of children retarded in their progress because of dental defects, but it is high enough to be felt in every district.

The question arises: "Is there any way to remedy this condition, to wipe out the 70 per cent?"

The answer is: "Yes."

How can it be done?

The public must cure the public ill. The solution is a practical one. Bad teeth can be fixed—therefore fix them. Public dental clinics have been in operation for sufficient time in enough places to demonstrate their possibilities.

The dental clinic also presents distinct advantages to the dental profession; first, by lessening the amount of charity work done by private dentists,

second, by the increase of their private practices, which is the natural sequence of publicity, due to dental work in the schools.

How a Dental Clinic may be Organized

First plan:

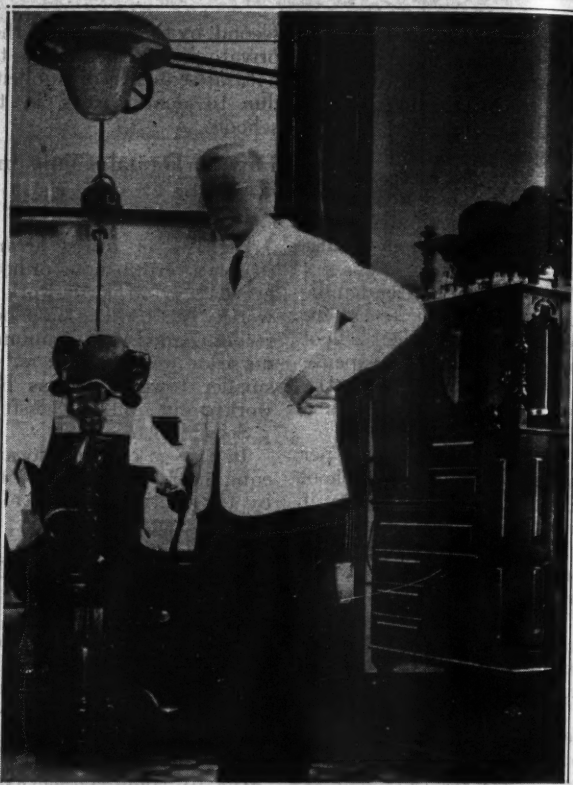
Dentists of towns arrange to give a certain hour or hours per day or week to work on worthy cases, which have been recommended by community nurse or welfare workers. In smaller towns this has been worked out quite successfully.

Second plan:

In a room centrally located, equipment is provided either by tax funds or local welfare societies, such as Rotary, Kiwanis, Lions, Civic and Women's Clubs, local Red Cross Chapters and Tuberculosis societies. This equipment can be supplied at a cost ranging from two hundred and fifty dollars up, depending on funds available—the operating dentist to be supplied for one or more half days per week by volunteer service, or, if funds be available, to be paid on an hourly basis at a rate varying from two to four dollars per hour. Any plan for organizing local dental clinics should be endorsed by local dentists and their advice solicited.

Third plan:

Equipment to be supplied in same manner as noted in Plan No. 2, and funds made available to employ dentist on part or full time, on salary, by the hour or monthly basis.



Dental Clinic, Bradford, Pennsylvania.

Suggested Rates:

Per hour.....	\$2.00 — \$4.00
Part time monthly	
.....	\$50.00 — \$80.00
Full time annually	
.....	\$1500 — \$2400

Community Dental Preventive and Educational Service

Since dental defects are largely preventable, an educational program suggests itself

as the first step in the solution of the problem of tooth troubles.

A new profession or vocation has come into being—dental hygiene. The operator, who is especially trained, is called a dental hygienist. She is a cleaner of teeth and does no filling or extracting, nor does she make diagnosis, but she is more than just a cleaner

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of teeth. She is a teacher of hygiene, both dental and general, giving tooth brush drills and telling the *how, why* and *when* of the tooth brush and is also trained to fundamentally teach: *what to eat and how to eat it*. The place to begin any educational work is with the child, for there you have a plastic and receptive mind. Health habits, both dental and general, can be inculcated in the child mind with better results than the adult.

The practical prophylaxis accompanying the classroom work of the dental hygienist visualizes the value of mouth cleanliness, the child whose teeth have been cleaned has an awakened pride in his general cleanliness and appearance, his moral tone is elevated, and he is in the way of making a better citizen.

How a Preventive Dental Service May be Established

One dental hygienist in a two hundred day school year can clean the teeth of about sixteen hundred children. Dental hygienists can be employed for about one hundred dollars per month. The equipment, which is portable and permanent, costs about one hundred dollars.

The State Department of Education issues a partial teacher's certificate to dental hygienists, which means that a proportionate part of her salary would be paid by the State, thereby lessening the cost to the local school board. The plan of operation of

the dental hygienist is to set up portable equipment in some part of the school building, such as principal's office, rest room or even on a stair landing—any place where good light is available and as near running water as possible. It is advised that her work start with the first grade and be carried to the fifth grade, if possible. At the start, it is advisable to have the written consent of the parent or guardian of the child before cleaning his teeth. Even though the dental hygienist does not have time to do practical work in all grades in a building, it is of value to have her conduct the classroom work through the entire building.

The dental hygienist should work in each school building. It is a part of the child's school life; there is little or no interference with the regular school work, and also no problem of transportation.

Plan for Establishment of Preventive Dental Service

In places where the school population is not large enough to warrant employment of dental hygienists on full time, two or more such places can co-operatively hire and finance the work.

Financing

First Plan:

Money to provide salary and equipment of dental hygienist to be raised by local Red Cross, Tuberculosis societies, Rotary, Kiwanis Civic, Women's Clubs or

Chambers of Commerce. This can and has been done either by any one of the above organizations, or co-operatively by two or more of them.

Second Plan:

Have above-named organizations request the local board to establish the service, the organizations assisting in the financing.

Third Plan:

The above organizations or any one of them request the school board to finance the plan.

Any community dental program proposed should have the advice and endorsement of the local dentists and in the dental hygiene or preventive service, they should be requested to act as an advisory committee.

In Bridgeport, Connecticut, where the dental preventive program was first installed, it was found that it lowered the cost of re-education fifty per cent, or, to use actual figures, before dental hygiene education was a part of their school system, it cost forty-two per cent of their entire school budget for re-education. After five years of intensive mouth hygiene work, the percentage dropped to seventeen per cent. The difference between forty-two and seventeen per cent in dollars and cents was many times the actual cost of doing the work. It is cheaper to do this work than not to, to say nothing about the welfare of the individual child which cannot be estimated in money.

It is doubtful whether any other profession has increased so much in public esteem during recent years as that of dentistry. This is no reflection on other professions. Perhaps the skilled dentist was later coming into his own as an agent of health and comfort than those in other professions were in getting their merited recognition. Be that as it may the dentist has "arrived."

Several hundred of them arrived—changing from the figurative to the literal—in Cleveland Sunday and Monday and yesterday opened the first convention session of the American Dental Association. A variety of problems related to the welfare of the profession will occupy the attention of visitors and hosts while the public welfare is so closely identified with the best interests of the profession that the convention becomes a matter of importance.

The dentist with his kit of instruments fought the good cause in the late war. They went into Russia after the armistice, carrying the gospel of sound teeth to the ignorant and helpless. Their service to the schools and to welfare organizations counts heavily on the side of public health. No longer is it deemed even respectable to have a mouthful of decaying teeth. Everyone recognizes that without a healthy mouth there can be no health. *Cleveland Plain Dealer.*



Anesthesia Induced by Deep, Rapid Breathing

Editor ORAL HYGIENE:

ENCLOSED please find article from *American Medicine* on "A Natural Anesthetic" which merely consists of deep and rapid breathing.

You will remember that the late Dr. Bonwill was a proponent of this method of anesthesia twenty-five or more years ago.

Yours very truly,

THOMAS J. McLERNON, D.D.S.
Camden, N. J.

Dr. Achard, of Marseilles, after extensive study of the practice of the fakirs and miracle performers of north Africa, particularly the tribe of Aissaouas, who drive nails through their hands or even into their skulls without evincing any sign of pain, has captured their secret—a principle of Nature hitherto either unrevealed or disregarded.

In studying the methods of these fakirs it was observed that before attempting their feats they indulged in preliminary exercises which it was first thought were merely meant to impress their audiences but which now appear to be an indispensable preparation for their performance. The fakir would first take deep

breathing exercises, his respiration increasing in rapidity and in depth until finally he reached a state bordering on what appeared to be frenzy but is really what may be described as a trance.

This trance, it was discovered, was not feigned but actual. Once he has reached this stage the fakir is ready for his stunts. He will drive a nail through his palm or through the flesh of his upper arm, and in some instances he has been known to drive a nail into his skull, in each case without drawing blood and without giving any evidence of pain.

At first it was believed that the fakir was merely hardened by experience and training, like our own Indians, to suffer pain without revealing it, but it was soon learned that he really felt no pain at all, that his trance was a form of self-induced anesthesia and that the preliminary deep breathing exercises acted as an anesthetic which lasted just long enough to permit the particular stunt and then wore off without leaving the fakir any the worse for his experience.

Drawing his own conclusions from these performances, Dr. Achard began a series of experiments in minor oper-

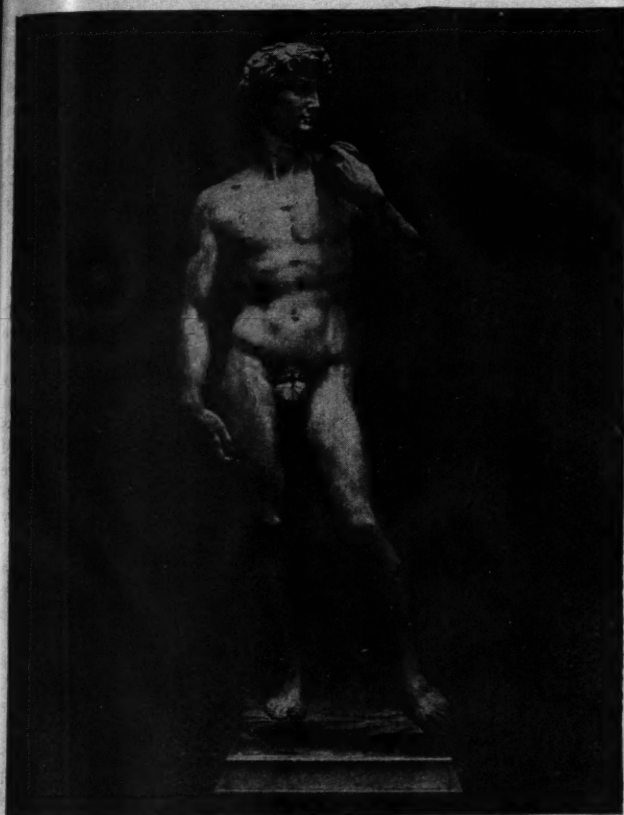
ations, all confirming the fact that deep breathing exercises before the operation, properly conducted, acted as an anesthetic. In the French magazine *Savoir*, Dr. Henry Reynis gives an account of an operation performed on him by Dr. Achard by this method. The operation in this instance was the extraction of an inferior molar the root of which

was infected. Dr. Achard asked his patient to begin taking a few deep breaths, then ordered the acceleration of the breathing. Dr. Reynis followed these instructions and at the end of one minute began to feel dizzy. At that moment, the extraction was performed, rapidly and dexterously, without the patient feeling any pain whatever.

It is a long journey from the days when barbers were surgeons and did much tooth pulling on the side. And, with the progress in investigation, many discoveries have been made by medical men which place the importance of dental surgery in such a prominent position among the scientific professions that the dentists are recognized as essential co-workers with the medical doctors. For many reasons it has been found that good teeth are essential to assure good health. And those who neglect to have their teeth properly cleaned, treated regularly and repaired or extracted when necessary, frequently pay for their folly with serious and fatal diseases.

The other evening a speaker at the Cleveland convention averred that cancer often can be traced to bad teeth. Because cancer is perhaps the most dreaded disease from which people suffer in this country, this announcement attracted much notice. But cancer is only one of a great many ailments and diseases which science tells us result from neglected molars. Therefore, it frequently happens that patients who consult medical doctors are sent to dentists and, after proper treatment of diseased teeth, extractions, fillings, bridgework, crowns and other work performed by the skilled dental surgeons, are restored to robust health without medical aid. Fortunately in most cities school children's teeth now are given attention under the dentist's supervision and people are learning that they menace their health and happiness when they neglect to see that their "grinders" are kept clean and good.

The American Dental Association has performed an extremely valuable service by encouraging such educational work. It is composed of men whose profession is absolutely necessary for the health of the people. The *Times* congratulates the representatives of the profession in attendance at the local meeting and wishes them increasing success in their important work.—*Cleveland Times and Commercial*.



"Michael Angelo's 'David'—the most perfect male figure from the hand of a sculptor—this figure that shows so clearly the balance of a symmetrical face with a healthy body. The indicated intelligence and energy and the striking beauty of the statue as shown by this picture should arrest the attention of every father and mother and call to mind the fact that a symmetrical face and a well-developed body are the surest guarantee of a strong, active mind," said an editorial in September ORAL HYGIENE.

The reproduction herewith presented is from one of the Munder Prints. It is published through the courtesy of Mr. Norman T. A. Munder.

Dr. E. L. Pettibone Joins ORAL HYGIENE Staff

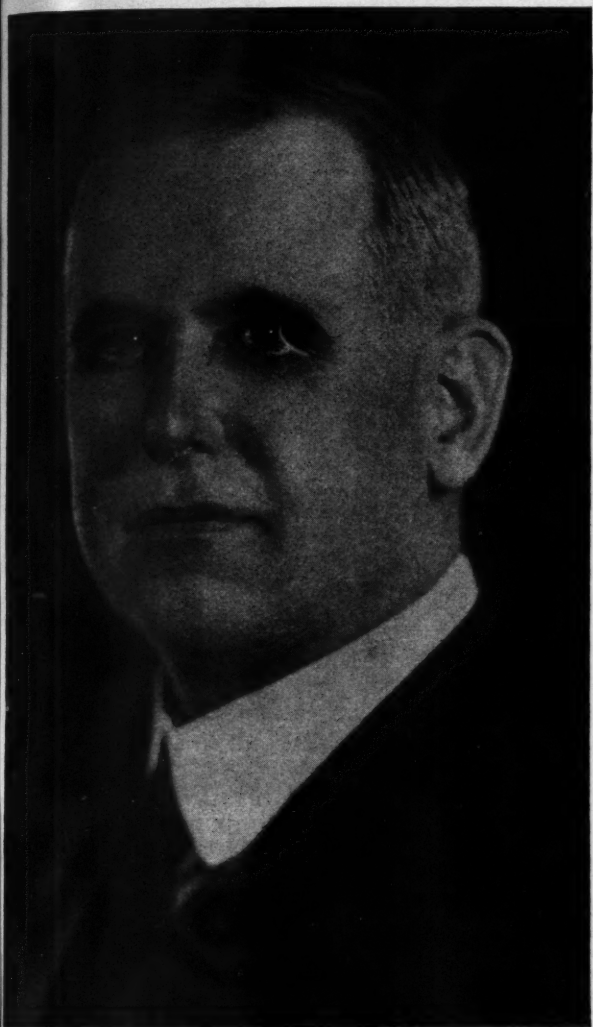
Will Edit Department of Industrial
Dentistry

INDUSTRIAL dentistry is the most elusive department of our profession so far as information on what is being done, and where, and how, is concerned.

We all know that industrial dentistry is becoming a big factor in big institutions. Now we are going to be able to tell you about it.

Dr. E. L. Pettibone, a member of the Council on Mouth Hygiene and Public Instruction of the American Dental Association, ex-president of the Ohio State Dental Association, and the recognized authority on industrial dentistry, has consented to edit the Department of Industrial Dentistry in ORAL HYGIENE.

We have long wished for the day when this department could be established and it is with great pride that we announce Dr. Pettibone as Associate Editor in charge.



Dr. E. L. Pettibone



Maiden of Lille

The sculptor of this delightful head of a girl was for a long time in doubt but it was pointed out that the delicacy of its lines and the sweet beauty of the face could be the work of none other than the master, Raphael. The head, indeed, justifies the claim, for the elegance and excellence of its art seems to make it the living, moving face of a charming young miss who has been named "The Maiden of Lille" after the museum, her home. This is reproduced in **ORAL HYGIENE** through the courtesy of Mr. Norman T. A. Munder. It is one of the series of Munder Prints, published by him



Help the nurse on the battlefields of Peace

THE tuberculosis nurse is an officer in the peace-time army that is fighting tuberculosis in the home. Christmas Seals are her soldiers.

In fifteen years the death rate from consumption has been cut in half. It can be stamped out entirely.

You save human lives when you buy Christmas Seals. You send year-round cheer to homes where Christmas joy is muted by the threat of death.

Honor these seals and the work they do. When you see them, buy them.

**The National, State,
and Local Tuberculosis Associations
of the United States**

**Stamp out Tuberculosis
with Christmas Seals**



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Sketches by Ho



Dr. Frank M. Casto, of Cleveland, who nearly worked himself to death getting ready for the meeting.



EVER in the history of the American Dental Association have so many members been present.

The week before was crowded with the sessions of the allied societies at the various Cleveland hotels.

Great signs announced the headquarters of each group of experts and the natives of the southern shore of Lake Erie twisted their tongues trying to pronounce the many "dontias"

that greeted them on all sides.

The general opinion was "if those are Greek words the Italians have a perfect right to collect."

On Sunday the regular dentists began to arrive—up to that time it looked as if the whole profession had become specialists.

On Monday morning there was nothing to do except register and visit the manufacturers' exhibits.

The registration booths were busy but as usual the exhibits were not in place because the lease on the exhibit area did not begin until Monday morning. It would be a good idea next time to open the exhibit room so that the displays could be ready for the members when they have time to spare.

Monday evening was the big fraternity dinner night. All of the frats got together; that is, each particular kind got together and each fraternity sent two representatives to every other fraternity to tell 'em how much they loved each other, which is very proper. "Love ye one another," but—they ought to think up a new speech—they all said the same thing and we all pretended to

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get enthusiastic just as though it was the first time we had ever heard it, so everything was fine.

Tuesday morning was the first general session. The Clevelanders call their Auditorium the "Public Hall" and we called their "Public Hall" the "Auditorium," so there was some confusion.

Dr. W. H. O. McGehee of Cleveland played the pipe organ so well that the general opinion was that the W. H. O. stood for "Wonderfully Harmonious Organist."

Many addresses of welcome were made, including one by Dr. Frank M. Casto, who had nearly worked himself to death getting ready for this meeting.

All of the addresses of welcome were accepted in a bunch by Dr. Sheppard W. Foster of Atlanta, Georgia. Dr. Foster is particularly good on a job like that and as there is no "r" in welcome he says it just like we do.

After that, all that was left was the President's Address by Dr. John P. Buckley—the hardest job any president has is the President's Address.

In the section on oral surgery, exodontia and anesthesia, Dr. Carl D. Lucas of



Dr. Truman W. Brophy, of Chicago, who began the practise of dentistry in 1867. He is president of the International Dental Federation, which convened recently in Paris.

Indianapolis read a paper in which he seemed to be opposed to alveolectomy—last year he seemed to be in favor of it. The question is, what will he seem to think next year?

The mouth hygiene and preventive dentistry section had many excellent papers; so good were many of them that I am very sorry the regulations do not permit us to publish them.

In the section on histology there was a scientific symposium on the study of the enamel of the teeth. The papers were very valuable.



Dr. C. N. Johnson, of Chicago, new President-Elect of the American Dental Association.

scientific contributions, among the best that the Association has ever had to offer.

On Wednesday there was a very thorough discussion of the problem of the dental hygienist. The consensus of opinion was that she has come to stay and that there is plenty of work for her to do.

Wednesday noon there was a luncheon at the Hollenden Hotel, which was called the First International Mouth Hygiene Conference—as a matter of fact it wasn't the first by about twenty-seven years, but it was probably the second and certainly was the first conference of the kind to be held in this country.

The subjects discussed were "A Dental Welfare Week," by the editor of this magazine; "The Dentists' Responsibility

in Public Health Work," by United States Senator Henrik Shipstead, D. D. S., of Minnesota; "The Dentist as a Citizen," by Dr. Don M. Gallie, who has the second largest voice in the world, the premier voice being the personal property of the junior senator from Minnesota. It is always a pleasure to hear Dr. Gallie because you can really hear him.

"The Mouth Hygiene Program for Canada," by Dr. Wallace Seccombe of Toronto was a real program.

Right here it is opportune to say that Canada and Great Britain are putting on mouth hygiene campaigns that will make the U. S. A. sit up and take notice. If we don't do something more than talk the rest of the English speaking race will take the lead.

"Ten Years of Mouth Hygiene Work in Havana Schools," by Dr. Andres Weber of Havana, Cuba, showed great progress in the capital of our island neighbor.

"Teaching Diet to School Children," by Mrs. Hubert Hart of Bridgeport, Connecticut, showed that Dr. Fones' work is still advancing. Mrs. Hart has had a great part in the Bridgeport school work.

There was a time when the mention of Bridgeport brought up visions of the late Phineas T. Barnum and Jumbo and Tom Thumb, but these days the mention of Bridgeport brings up visions of thousands

Work," by Dr. Henry of Minne- as a Citi- M. Gallie, the largest e premier onal propa- ator from always a r. Gallie ally hear

of school children with good teeth and good health. "How to Finance a Local Clinic," by Dr. Grant H. Smock of Erie, Pa., gave an outline of the very successful work of the dentists and public spirited citizens of Erie, an example and a plan that should be given close study by all oral hygiene committees.

"Pre-Natal Diet and its Relation to the Teeth," by Dr. Alfred C. Fones of Bridgeport received close attention. It is a good idea to begin health work with ancestors.

"The Dental Hygienist as an Educational Factor," by Dr. Guy S. Milberry of San Francisco, was well handled. Dr. Milberry is a great friend of the dental hygienist and is a sound thinker in the field of hygiene.

"Mouth Hygiene in New Orleans," by Dr. Haidee Weeks Guthrie of New Orleans was given closer attention and greater applause by the audience than any of the other addresses. Whether it was the subject or the doctor that took so well I am unable to say, possibly both; anyway, Dr. Guthrie not only held the audience but she was able to quiet the chairman as well.

"How to Establish a Dental Exhibit in an Average Sized Community," by Dr. W. R. Wright of Jackson, Mississippi, was a further account of the very excellent work in oral hygiene that Dr. Wright has sponsored in the far south. Jackson, Miss., is becoming



Dr. A. C. Rich, of Saratoga Springs, N. Y. A member of the House of Delegates for many years.

almost as great a Mecca in oral hygiene as Bridgeport.

"Industrial Dentistry," by Dr. E. L. Pettibone of Cleveland was a revelation in the advance of this most important subject. Dr. Pettibone knows more about industrial dentistry than anyone in America and it will be with great pride that we shall announce before long the fact that he will edit a section, to be devoted to industrial dentistry, in ORAL HYGIENE.

This conference was organized and put over by Dr. Otto U. King, our very greatly appreciated secretary of the American Dental Association. Of all the many excellent ideas that Dr. King has presented there has never been one that was a greater success.

Four hundred covers were laid and there were nearly seven hundred who tried to attend. Every seat was filled and every inch of standing room was occupied.

Dr. Aguilar of Madrid, Spain, talked of the first oral

hygiene movements in Europe and spoke highly of the work of Dr. Jessen.

In the section in operative dentistry Dr. Clarence O. Simpson of St. Louis spoke on the utility of the radiograph in operative dentistry with special application to preventive service.

On Wednesday afternoon the section on orthodontia devoted an hour to a memorial service in memory of a great man and a great orthodontist, Dr. Calvin S. Case, for many years professor of orthodontia at the Chicago College of Dental Surgery. If Dr. Case had lived he would have presented, during that hour,



Dr. Florestan Aguilar, of Madrid, Spain, dentist to the Spanish royal family.

a paper upon the early regulation of children's teeth.

As an orthodontist, a teacher, an artist, an author and an original investigator, he had few equals. His splendid pioneer work in the regulation of teeth entitles him to a high place in the history of dentistry.

Dr. John P. Buckley, President of the American Dental Association and for many years a member of the faculty of the Chicago College of Dental Surgery, spoke on "Calvin S. Case, The Teacher."

Dr. C. N. Johnson, the new President-Elect of the American Dental Association, and Professor of Operative Dentistry at Chicago College of Dental Surgery, spoke beautifully on "Calvin S. Case, The Man."

Dr. Otto U. King, Secretary of the American Dental Association, spoke on "Calvin S. Case, The Author."

Dr. Hart L. Goslee, for many years a member of the faculty of the Chicago College of Dental Surgery, spoke on "Calvin S. Case, The Practitioner and Scientist," and Dr. Thomas L. Grisamore spoke on "Calvin S. Case, The Orthodontist and Friend."

The section on mouth hygiene and preventive dentistry, under the chairmanship of Dr. W. H. Card of Minneapolis, deserves special mention. This section has shown steady improvement in the last few years and is now one of the most valued

sections of the A. D. A.

The section on oral surgery, exodontia and anesthesia, presided over by Dr. Joseph P. Henahan of Cleveland, had the largest attendance of any of the sections.

One of the best things a good Irishman does is to preside and Dr. Henahan is a good Irishman.

Dr. Carlos E. Pitkin of Cleveland had a very interesting paper on "Foreign Bodies of Dental Origin in Air and Food Passages." A simpler title would have been "Plates that Skid."

Dr. Virgil Loeb of St. Louis read a paper on "Surgery of the Anterum of Highmore" that brought out a great deal of discussion, most of which indicated that Dr. Loeb's views were mostly Dr. Loeb's views.

Dr. Henry S. Dunning of New York read a very convincing paper on cysts and tumors of the jaws—well illustrated with lantern slides. Dr. Dunning has a method of getting the contents of his paper to those who discuss it that, in my opinion, should generally be adopted—at least Dr. Dunning and the writer have the same idea, and that is: let the fellow who is to discuss the

paper go and hear it read and then get up and say what he thinks about it.

This business of sending copies of papers out weeks ahead to possible discussors and then having written discussions longer than the original paper is all wrong.

How does a real live speaker know several weeks ahead what he is going to say?

If the paper is not clear

enough for seventy-five per cent of the audience to get up and give an intelligent discussion, the essayist is in the wrong place or else the audience belongs elsewhere.

Dr. Dunning's paper brought out a good discussion.

The educational exhibit in the main hall of the auditorium, open every day,

was of unusual interest and importance—so important that this magazine had its own photographer get excellent photographs of every exhibit—these will be published in early issues so that your file of ORAL HYGIENE will have the exhibit complete.

The Council on Mouth Hygiene and Public Instruction—consisting of Dr. W. R. Wright, Chairman, Dr. E. L. Pettibone, Vice-Chairman, Dr. Otto U. King, Secretary, Dr.



Dr. Ralph Hartley, of Los Angeles, Cal., formerly of Berlin.

Guy S. Milberry and Dr. H. J. Burkhart—deserves credit for the success of the work. Dr. Pettibone especially devoted his time and ability freely.

The clinics in charge of Dr. P. A. Puterbaugh occupied all the balconies of the auditorium. Everything that could be shown in a clinic was there.

One subject that seems to become more prominent each year is diet. Enthusiasts upon the various systems of feeding demonstrate that each one is right—so everybody is happy though hungry.

The motion picture program in the health exhibit was always crowded. Some of the films exhibited were:

"Toothache," the first mouth hygiene film made under the direction of the late Dr. Ebersole, who appears in the picture, produced by the Cleveland Mouth Hygiene Association.

"Careless America," showing how children are hurt, an excellent safety film produced by the Cleveland Safety Council.

"Mobile Organisms of the Mouth," Dr. Weston A. Price, Cleveland.

"Educational Film on Venereal Disease," (this film was produced to educate employees of the National Cash Register Company to avoid tainted money).

"Demonstration by Students at Rochester Dental Dispensary and Kodak Plant," Dr. Harvey J. Burkhart, Director.

"International Exposition of Hygiene"—10,000 school chil-

dren of Havana, Cuba, in mouth hygiene contest—Dr. Marcelino Weiss, Dean University of Havana Dental School.

"Tommy Tucker's Tooth," a very splendid film for teaching oral hygiene to small children—Dr. Thos. B. McCrum, Deaner Institute, Kansas City.

"The Careless Worker," an industrial safety lesson—Cleveland Safety Council.

"An Efficient Worker," showing how a factory may be made safe, healthful, cheerful—National Cash Register Co., Dayton, Ohio.

"The Outlaw," a safety film of general interest—National Safety Council.

"Mouth Hygiene or Your Teeth," Miss Evelyn Schmidt, State Department of Health, Boston.

"The Story of Johnny Dont-care's Teeth,"—Dr. H. E. Kleinschmidt—a series of 23 slides prepared by the Toledo Public Health Association, 401 Produce Exchange Bldg., Toledo, Ohio. These slides in sets are available at cost price; they are in colors and are unusually good for public lectures.

"Your Teeth," a very good film by Dr. T. B. Hartzell, Minneapolis.

"Care of the Feet," as far as possible from dentistry.

"Life through Life's Windows," which teaches care of the eyes.

"Milk as a Food."

"The Reward of Courage,"



(C) U. & U.

"Miss Dallas," brought from the Atlantic City beauty pageant by the Dallas delegation and offered as a reason for holding next year's convention in the Texas city. Dallas got the convention!

American Society for the Control of Cancer.

"Mouth Hygiene for School Children," Dr. Alfred C. Fones, Bridgeport, Connecticut.

"Come Clean," a wartime film shown by Dr. L. E. Mitchell of Los Angeles.

"Science of Life," United States Public Health Service.

"History and Use of Motion Pictures in Teaching Medicine."

"Reproduction in Animals of Human Diseases," by Dr. Weston A. Price, Cleveland.

These reels, with several others, cover in a wonderful way the thoughts we desire to present to the public.

The clinics were constantly crowded with interested spectators. There were so many of them that it is impossible for a magazine of this size to even attempt a description of the best of them. A great amount of time and effort had been given to their preparation and it is no exaggeration to say that technical teaching by means of models has been carried to a higher degree of perfection by dental clinicians than has ever been achieved by any other profession.

At the Cleveland hospitals there were a number of surgical clinics to show not only surgical technique but the proper administration of the various types of anesthesia.

Altogether the meeting was a very great success and the political situation at last seems to have cleared to some extent. There is now a proposition that we hope will be made a

part of the Constitution by next year which will prevent any man serving more than two consecutive terms as a Trustee. If, in addition to this, there can be a Constitutional Amendment against the pledging of delegates from one year to another by candidates who switch their strength to a more successful rival, we also will have made a step in advance.

The ethics of this profession seem to be pretty well crystallized on the Golden Rule proposition, which is to "Do unto others as you would have others do unto you." Just how the code of ethics can be stretched over the promising of votes by delegates at next year's Convention is more than we can understand. These delegates are only elected for one year and the day the Convention is over their job is finished and they have no more right to promise their votes next year than they have to promise the vote of anybody else; in fact, many times a state delegation will agree to cast a solid vote for a candidate and many of the delegation will not be re-elected. It has been customary to consider that the newly-elected men, who had nothing whatever to do with the promising of votes, are bound by the promises of their predecessors. If this is Ethics, just what *would* be unethical? Now that we start out with a clean slate, let us insist that the record made at Cleveland be used as a precedent for all meetings hereafter.

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LIBRARY HYGIENE
SALT
COLLEGE
DENTAL SURGERY.

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The Story of
Johnny Dontcare's
Tooth



First:

Brush your teeth
night and morning



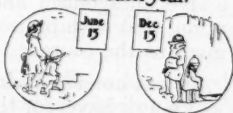
Third:

Nourish your teeth.
Eat the right kinds of food.



Fourth:

Visit your dentist
twice each year.



Decayed
food
particles

Too Bad!

Johnny Dontcare
was careless-

He neglected
to keep his
teeth clean.



Black and white reproductions of some of the colored slides shown by the Toledo Public Health Association. The slides themselves may be secured from the Association at cost. Write 401 Produce Exchange Building, Toledo, Ohio.

Missouri Dental Board

DR. V. R. MCCUE, PRESIDENT
ST. JOSEPH

DR. T. E. PURCELL, VICE-PRESIDENT
KANSAS CITY

DR. GEORGE E. HAIGH, SECRETARY
JEFFERSON CITY

DR. W. A. RODDY
ST. LOUIS

DR. C. W. DIGGES
COLUMBIA

ST. LOUIS, MO.,

Editor ORAL HYGIENE:

We, as members of the Missouri Dental Board, desire to express our thanks for the compliment paid us in your "Pages from the Diary of the Modern Dental Samuel Pepys," and to assure you that we thoroughly appreciate it.

We have so frequently had to contend with active antagonism and passive lack of co-operation, that such praise coming from such a source gives us the courage to "carry on."

It was no easy task to have enacted laws such as we now have, for there was ever strong opposition by parties interested, but persistent efforts have won for us the right to protect the unsuspecting public.

While we have not worked for, expected nor asked appreciation, yet it pleases us mightily to know that our successful efforts are to be emulated by our sister States as entirely worthy of their approval.

Collectively and individually we send you our cordial thanks.

We are, sincerely yours,

V. R. McCue

T. E. Purcell

George E. Haigh

W. A. Roddy

C. W. Digges

International Oral Hygiene

Translated and Briefed by C. W. BARTON, Fort Wayne, Ind.

Peru.

In a survey of the field of immediate contact between general medicine and dentistry, Dr. Ernesto A. Dam sees the importance of oral hygiene first as a preventive of disease, then as an indispensable curative factor in many ills, and comes finally to the conclusion that general hygiene is impossible to attain without oral hygiene as a primary measure.

The deputy Don C. Macedo Pastor has submitted to the Peruvian Congress a draft of a bill charging the executive authorities with the institution and enforcement of an obligatory instruction in elementary oral hygiene in all primary schools.

Cuba.

Francisco M. Pucci, of Montevideo, in a paper read before the 6th Latin-American Medical Congress, held in Havana, points out, according to *Progresos Odontologicos*, the value of a close co-operation between the medical and the dental professions in the propagation of oral hygiene and prophylaxis amongst the masses who are certain to pay more attention to the word of the medical

practitioner whose authority has been long since established with the people.

To this end, however, appreciation by the medical profession on odontological aims as well as reciprocal collaboration all along the line are indispensable.

On the occasion of the inauguration of Dr. Marcelino Weiss as member of the Academy of Science, attention was called by Dr. Andres G. Weber to a "spelling book" which Dr. Weiss has edited for use in the schools and in which he combines the first elements of reading and writing with a simple catechism of oral hygiene with the care of the teeth, since it is very much easier and by far more promising of success to impress certain rules on the child's mind from its earliest youth than to educate grown-up people by modifying their rooted-in ideas, such a book, in the opinion of Dr. Weber, cannot fail to make oral hygiene a second nature of the generations to come, says *Cuba Odontologica*.

Brazil.

Thanks to the initiative of the Central Association of

Dental Surgeons of Brazil, and with the assistance of the press, help from scientific, political and social bodies, ready grants of subsidies by the government and the municipality, and generous contributions from the people, Rio de Janeiro is organizing a free dental service for children.

In March last public subscriptions amounted to \$30,273; the Municipal Council subsidy having been voted at \$80,000, and the President of the Republic having granted the use of suitable quarters, the service promises to run successfully before long.

Malta.

George Cecil, the well known British traveler and writer, tells in *The Druggist's Circular* for August that the Maltese pharmacist, "being a handy man, is ready to extract teeth, and the really venturesome chemist attempts to fill them. But not with lasting success, for, the anatomy of the tooth being a sealed book to him, the relief may be of so temporary a nature that, an hour later, the patient is in greater pain than ever.

"As a man of honor," remarks the repentant Giovanni, 'I must make amends. If the *Signore* permits I will pull it out free of charge.' He does so, using the antiquated 'key' instrument. As no local anesthetic is administered, the victim is tortured beyond all endurance, and, in retaliation,

he endeavors to boycott the pharmacy. Legal proceedings follow."

Switzerland.

From the rather belated report on the meeting of the F. D. I. in September, 1922, we gather that the Department of Education of Bale (Switzerland) has distributed 25,000 free copies of a pamphlet on dental hygiene for use in the schools and in the homes of school children. The Department has also issued 500 mural posters to compliment this pamphlet, and is going to recommend officially the introduction of this educational material in the schools of the other cantons.

On a motion by Prof. Jessen, Bale, President of the Commission of Dental Hygiene in the F. D. I., this commission has adopted a resolution tending to prevail upon the competent authorities of all the countries affiliated to the F. D. I., through their respective national committees, to introduce a similar educational pamphlet on dental hygiene in all the schools.

Dr. Aguilar proposed an inquiry by the F. D. I. into the dental service of the armies and navies of the different countries with a view to improving this service.

There are at present 22 national committees in 22 different countries acting under the direction of the Hygiene Commission of the International Dental Federation.

In the Editor's Mail

Editor ORAL HYGIENE:

I am enclosing a clipping from *The Bulletin* of the Mississippi State Dental Association that gives the latest development in this State on the oral hygiene question. It is the establishment of the Oral Hygiene Division of the Bureau of Child Welfare, which is maintained by the State.

100 per cent campaigns have been waged in several towns. Miss Eyrichs' campaign in Jackson, Miss., was the first one. And, indeed, was the first inaugurated in any public school in the whole country. Her work was written up in the *Journal of the American Dental Association* a year ago. 100 per cent campaigns were carried out in the public schools of both New Albany and Tupelo and in other towns also. Clarksdale, Miss., has carried out an intensive oral hygiene program under the direction of her dentists.

Dr. W. R. Wright of Jackson, Miss., could give you an excellent outline of oral hygiene work in this State.

Sorry I can't put this in the nature of an article, however this establishment of a Division of Oral Hygiene by the State Board of Health, with a director, is a forward step. And the 100 per cent campaigns carried out in a few of our schools are a very valuable

work. But this has been confined to a few localities.

Fraterally yours,

A. A. ALLEN, D.D.S., SEC.
Secy. Mississippi Dental
Assn. Amory, Miss.

DIVISION OF MOUTH HYGIENE

The Mississippi State Board of Health has established a division of Mouth Hygiene in the Bureau of Child Welfare. The Bureau of Child Welfare is under the direction of Dr. F. J. Underwood. The division of Mouth Hygiene will be under the supervision of Miss Bowden Hudson. Miss Hudson graduated from Blue Mountain School, Mississippi, in June, 1912, and since that time has devoted a part of her time to teaching, but during the last several years has been doing social service and also health work.

It should be stated that through the active work of Miss Hudson the Tupelo schools secured 100 per cent dental corrections during the past year. This was not only true of the white schools but also of the negro schools. It is probable that this is the only town in the south where both the white and the negro schools have obtained 100 per cent in dental corrections among children. This was made possible by the hearty co-operation of the dentists, superintendent of schools, the teachers, and the Parent-Teachers' Association.

Careful attention will be given to working out a program which will be far-reaching in its effect upon the citizenship of the State, and briefly stated the following program will be extended in such a way as to meet the requirements:

1. State Supervisor on Mouth Hygiene.
2. Director of state-wide activities in Mouth Hygiene under the supervision of the State Supervisor.

3. Demonstration on the inspection of teeth at selected points, including a campaign for 100 per cent corrective work.
4. Soliciting co-operation of local health agencies, dentists, teachers and Parent-Teachers' Association in doing corrective work.
5. Preparation and distribution of suitable leaflets on Mouth Hygiene.
6. The use of such exhibit material as may be available which will reinforce and contribute to the success of the campaign.
7. Co-operation with the State Department of Education in securing more effective work in the schools of the state on Mouth Hygiene.
8. Lecture to normals for teachers on Mouth Hygiene, including exhibit material.

Primarily the work will be educational insofar as the activities of the State Board of Health are concerned, but every opportunity will be offered to the dentists to co-operate in an active and effective way in obtaining the necessary corrections in Mouth Hygiene among children. Much will depend upon the interest, intelligent attitude, and co-operation of the dentists of Mississippi in promoting this important work. We feel confident that the dentists will lend us every possible aid in the different counties of the state, and through them in co-operation with the representatives of the State Board of Health we hope

to enlist the superintendents of the schools, the teachers, the Parent-Teachers' Association, and other agencies in each county which will be effective in stimulating a state-wide interest in Mouth Hygiene. There is no more important phase of public health work. It is needless to state that the Bureau of Child Welfare will do everything possible under the able direction of Dr. F. J. Underwood to make the division of Mouth Hygiene under the supervision of Miss Hudson a great success.

W. S. LEATHERS
Executive Officer.

Editor ORAL HYGIENE:

Am enclosing a letter received by me some few days ago. I thought it might interest the readers of ORAL HYGIENE, the best dental periodical to be had. I gladly consent to its publication should you desire to do so.

Very truly yours,

F. L. ZEHNPFENNIG
Pierz, Minn.

Dear Sir:

My wife was at your Plays and had here theet polt June the 9th, now she got to come back againt, it is a sliever of a bone thicken through here gume she hast to have that clipt of she will be there July the 6th. a. m.

You are waiting for here.



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OF
Pages from the Diary of the
Modern Dental Samuel Pepys

By SAMUEL PEPYS, Jr., D. D. S.



AROUND the lobby of the Hollenden Hotel assembled all of the known leaders who shape the destiny of the organization and can manipulate the voting power in a manner that would make old Mark Hanna turn over in his grave and wonder who these shrewd politicians are.

Out at the California meeting it was agreed by the powers that be that Allen was to have the support of the machine when he withdrew in favor of Giffen and naturally a great many delegates were pledged to support Allen for the office of President-Elect. This is the big plum to be dished out at each national meeting; the President-Elect automatically becomes President the year following.

All was quiet around the lobby and Allen was the only candidate in the field, until a delegation from California arrived and announced that C. N. Johnson of Chicago was their choice for President-Elect.

This was the big torpedo fired into the lobby and you

should have heard the rebound of the shot! What could be said by those already pledged to Allen and his loyal supporters except that "a strong opponent is in the field"?

The House of Delegates convened on Monday morning at ten o'clock and that genial Arthur Smith of Peoria, better known as the Bill Nye of the Dental World, at a desk with a corps of assistants serving in the capacity of Chairman on the Committee of Credentials.

He attached to the lapel of my coat a delegate badge and I proceed into the Auditorium to my seat surrounded by fellow delegates from my state.



The usual pomp and ceremony have been dispensed with; the President reads his annual address and as usual all presidents are would-be reformers and offer many suggestions for the improvement of the organization which usually winds up in the committee room, never to be let out.

The analysis of his report is the result of a year's work done by the Board of Trustees in conjunction with the Pres-

ident, as issues that are of vital interest to the profession are proposed by this body.



The national organization has grown to such proportions that it makes you dizzy when comparing the various reports—as read by the chairmen of the large number of committees who have their work highly specialized—with the work of your local organization.

As a president, Buckley was equal to the occasion, and wielded the gavel like a gifted parliamentarian. The many issues as brought forth in the President's address were referred to respective committees to be further investigated and again brought before the house.



Standing committee reports on Dental Education, of which Midgely was Chairman, were enlightening to those in attendance and the Association is indeed fortunate to have such a capable individual give so much of his life to further the advancement of our dental educational problems.

The report was a masterpiece in many respects and the demonstration of the delegation was sufficient evidence of a general acceptance of the work of the committee.



In the report of the Committee on Nomenclature, Chairman Anthony has taken a broader viewpoint of their responsibility than in the past

and gave a sane message on many needed reforms.



The report of the Committee on Research was enlightening and brought up many issues during the meeting—one of them not entirely clear to my wooden head when I departed.



When the President, in his annual address, asked for a copy of the lease held by the National Research Commission on property purchased by the research fund and later released, said copy was not in the office of the American Dental Association nor a copy thereof.

The committee failed to bring in a report on this matter and the Vice-President, by request of the chair, took over the reins while the President again made a request for the lease and a report. He was then informed by Dr. Hettrick of Kansas that a report would be forthcoming and all was again serene.



The report of the Secretary was a voluminous one; it consumed an hour and a half. This report is of great importance, but the majority of the members during its reading exhibited their inattention and swapped stories with their neighboring delegates. This report should be gotten up in printed form before the meeting and mailed to each delegate to be read on the train while journeying to the meet-

DENTAL SURGERY.

ing; only in this way can it be intelligently analyzed.

The statement as read was a credit to the able official who has the ability to see that all the many details of his office are properly compiled in a business-like manner, properly formulated so that a concrete knowledge of the business management of the *Journal*, dues received and accounting of disbursements, are all carefully recorded.

The magnitude of the business transacted by the Secretary is astounding, and the figures read, as compared to a report I listened to some ten years ago, is beyond one's comprehension when one stops to analyze the growth of the organization and the responsibility imposed upon those who assume the work of our Association.

That the Secretary's work has been efficient is evident by the vote of confidence of the entire organization and, during the election of officers, when it came time to elect the Secretary, the vote of the delegates was unanimous.

The appreciation of one's efforts, when such a representative body endorses your work, must be a stimulant to our "King of Secretaries." I don't doubt but that his griefs are many yet he seems to have the happy faculty of laughing them off.

You know I could not see him in that position a number of years ago, as I didn't think then that he had the goods and I was correct in my view-

point at that time, but I am all wrong now; he reversed the English on me and developed himself into a capable official; his weak points were strengthened and he just got out and developed himself and mastered all of the many intricate details that must be understood when handling a big journal and the business of a big organization. What he may develop into in the future, as compared with his past work, will bear watching.



During all of this business transaction the President reminds those who are within the hearing of his voice that the house is not a secret chamber, all are welcome, but "don't come to disturb the routine by moving around from one part of the auditorium to the other," which, no doubt, must have been very annoying.



The President's issue about the lease is again up for debate, and this time we have the detailed report of Dr. Weston Price who could not come to the session earlier on account of various other duties he had to perform.

Now what I had gathered from his report was that the Committee on Research had purchased a house on Euclid avenue in Cleveland to carry on research work, when said committee, which had carried out all of the work as planned, found that the property they selected and purchased from a fund gathered for research

work only, had increased in value and that the property could be leased for ninety years at a good profit, which was to be used for research work only.

The committee, who, no doubt to a man, have the interest of research work at heart, so arranged the lease and the revenue therefrom that the profits can be used for no other purposes. The lease was exhibited but not read on account of its length; it was drawn up by the most capable legal talent obtainable. This issue was debated by the various members of the committee; all seem to agree that every precaution has been taken in the interest of the research fund.

During all of this debate Hettrick, who could not be unbalanced, kept his poise; no one could ruffle him; he informed the President and delegates that he was capable of directing research work, was not personally inclined that way but understood the need in that direction, and was confident that he understood the business of directing the work.

He further stated that the profession did not understand the individual who did this type of work and that if they would just stop a moment and look upon his work and not on him personally, it would be better for all concerned. There were a few of these individuals in the auditorium and they all smiled and the audience looked them over.

During the interim all the delegates were introduced to Miss Ruth Brand, who represented the Chamber of Commerce of Dallas, Texas, and had been honored as the most beautiful girl in Texas. She was returning from Atlantic City where she was entered in another contest, the results of which we did not obtain.

This was the best piece of strategy pulled at the meeting, as, before her arrival, Detroit had the majority of delegates lined up to vote for that city as the place to hold the next national convention. "Miss Dallas," however, convinced the majority of the delegates that her city was the place for the next meeting and assured them that there are "many more at home like her."



About the lobby of the Hollenden Hotel gathered the so-called active workers who are interested in the political destiny of the Association.

The individuals who were the campaign managers for Johnson and Allen both claimed to have enough pledged votes for their candidate to carry the election, and it was rumored that a third candidate would be sprung so as to split the vote. This candidate, however, did not materialize.



The campaign for the city to be selected to hold the next meeting was a very active issue between Detroit and Dallas, and with "Miss

DENTAL SURGERY.

Dallas pinning roses on the lapels of the delegates' coats, and the Detroit delegation handing out their many new Ford jokes, the activity of both sides was interesting to watch from a neutral standpoint.

The charming "Miss Dallas" at all times kept the spot light focused upon herself and was always surrounded by the delegates who could not resist the temptation of conversing with her, not that they were seeking information about the city she represented, but the privilege of meeting her and enjoying the charming manner in which she fostered the interest of her city and—what's the use of saying any more—she was good competition for the Ford stories which, by the way, were well presented.



All of the business transacted, time for election was approaching. Allen and Johnson men confident of victory. Dallas and Detroit representatives were confident of their city being chosen and it looked all around as though President-Elect and the choice of city would be a toss up.

"Bill Nye" then read the list of delegates and checked up the voting number present and failed to include himself and his vote was later contested and he could not, on account of a closed ballot, cast his lot for his choice of candidate which had the effect of disturbing his poise when the delegates all called

for him to entertain in order to break the monotony when the vote collectors had retired to tally the results.

Smith could not gather himself together to get his mind working in the direction of that inborn talent which he possesses and through which he can, usually, on a moment's notice, present to an audience his Bill Nye stuff which is classic and always gets over. He got into a serious strain but made a good showing in that department.

The announcement of the ballot, 126 votes for Johnson and 54 for Allen, was followed by a demonstration that lasted for several minutes. The Allen supporters took their defeat as they carried out their campaign—in a manner that was creditable to them—and Allen, although defeated, at least had the privilege of knowing that only a man of Johnson's calibre could have made the grade.

That the House of Delegates is rounding itself out to a point where occasionally a truly professional brother may have the distinction of the highest office in the association, is worthy of note. When Dr. Johnson reads his Presidential address there will be no apology, nor committees to be appointed to determine if a professional man can take a known drug and trademark it for sale to the profession or patent attachments, etc., that are used in the alleviation of the ills of humanity.

The reforms he will intro-

duce will be those he has so vigorously campaigned for in the past, and those high ideals which shape the destiny of our profession.

The delegates who did not vote for Johnson all expressed their loyalty to Johnson, but obligations which they pledged in California were their duty and there could be no other vote cast by them.

Now that no more pledged votes remain pledged why not look around for candidates on the order of Johnson and keep up this line of presidents so that not only no known politician can hold the office, but rather men who don't mess in politics and are doing and have done for dentistry some work aside from pulling wires; men who have made possible for us a great many ways to render better service to our patients.

The President does not have the entire load to carry as there are so many committees and sub-committees that do the bulk of the work and he does not have to be a good promiser. The independent candidate has no political pies to disturb him and he can more effectively carry on the year's program.

One of the Allen supporters said to me, "Why I thought Johnson had been president? Why introduce him at this time?" If there are more men of the Johnson type who have not been president, let's line them up and send them over before their days of usefulness

have been impaired by advanced age.



My interest is not political but I could write a great many things that would be of interest; how trades are made, what pressure is brought to yield results; but leaving the past remain as such, the future candidates should be chosen with a regard for the work they have done and not for their ability to salve votes, for a truly high type of man would not solicit a vote for himself. Could you imagine a man like Johnson asking a delegate to vote for him? How absurd, yet I have been approached by past presidents for my vote! It's obnoxious for the man to seek the office instead of the office seeking the man.



Three vice-presidents were nominated and elected without opposition. However, their position is a compliment—but they are never to be advanced beyond that office; it is a method of side-tracking good men.



There was a lively contest for the selection of the vacant places on the Board of Trustees. Why they all seek this office, with all the work, I don't know, but it makes a hot campaign and a lot of vote-swapping was done where there was a contest; I did get into their mess.



One of the districts handed out a ballot slip asking for the

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support of a certain candidate and to my surprise I thought he would get votes, but it had the opposite effect and killed the candidate whose name was on the ballot, which is evidence that state societies are sending men who can do some analyzing for themselves, and who do not follow the dictation of some state politician who had his name placed upon the list of delegates so that he could handle his vote.

When the vote for the election of the next meeting place was announced, the speaker representing Texas was recognized by the President and he elaborated upon the Texas city as a place to hold the next meeting and took advantage of an advertisement which announced that Detroit was only ninety minutes from Cleveland but did *not* state that it was via

airplane! His remarks were carefully prepared in advance and capably presented. The speaker for Michigan started off like a winner and had the delegates all sold to Detroit, and, lo and behold—unsold them again by too long a talk!

There was some sort of an agreement to let Texas have it, as Detroit is too close to Chicago, where probably the meeting will be held the year following, as Johnson will be President at that time.

At the Texas meeting, should I be so fortunate as to be a delegate without solicitation on my part, a more detailed report of that which transpires will be attempted.

As C. N. Johnson leaves this coming year's election unchallenged, may the delegates in the future confine their energies only to such men as stand for principles that are endorsed by C. N. J.



The Waste of Bolshevism

By THE EDITOR



NE of the very brilliant ideas of the Russian Revolution was to confiscate all private property, including dental instruments and appliances.

As soon as they were confiscated they were lost, so far as the dentist himself was concerned. This is not surprising because it would be hard enough for an expert to make out a property list of all the dental appliances in the United States in regular United States English but for the fellows with whiskers to make it out in the Russian language was totally impossible.

In all of the relief work that has been done in Russia—and there has been some seventy-eight million dollars sent over from America—the professional man has been overlooked.

Revolutions seem to have two main ideas—one is the confiscation of property, which automatically eliminates the wealthy class, and the other is the total destruction of the educated people. By destroying the great educated middle class, the under dog does not have to be embarrassed by coming in contact with those of superior brain power and education. This, of course, flatters him and causes untold suffering to the general population.

Dr. Florestan Aguilar, Secretary-General of the Federal Dentaire Internationale, traveled from Madrid to Russia and made an examination of conditions. He went before the Board of Trustees of the A. D. A. at Cleveland and presented the facts in regard to dentistry in Russia as he found them.

Finding that without exception the Russian dentists were in actual want, many distinguished men being unable to clothe themselves, Doctor Aguilar

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suggested that for about fifty dollars a set of instruments, sufficient to enable a dentist to work, might be procured. It is estimated that fifteen hundred sets are needed and it was greatly hoped that the dentists of the world would make a large portion of the contribution.

The House of Delegates voted from its treasury twenty-five hundred dollars, which will furnish fifty sets. The two hundred delegates in the House of Delegates each agreed to raise from their respective states, a sum equal to two sets of instruments for each delegate, making four hundred sets. About one-third of the dentists in the world live in the United States and it is more than likely that this third will be called upon to do about fifty per cent of this charity for the Russians.

The Russian Government has guaranteed the safe delivery of every set of instruments and has promised to transport them free of post and without duty. A close check is kept on every shipment and the cars containing the instruments are sealed by the proper officials, not to be opened until the instruments are delivered to the dentists to whom they are consigned.

This is a matter that should receive the whole-hearted co-operation of dentists everywhere and it is not only a charity to our conferees, who are unfortunately caught in the Revolution, but is a charity as well to suffering people who may, in this way, have eliminated, to some extent, the hardships which have come to them through the inability of the dentist to give the service which he is so eminently qualified to administer.



The Influence of

By LILLIAN
ESSE



F course we all know that beautiful furniture and decorations in a home make for love and happiness; one beautiful painting can illuminate a bare room; a glorious antique Persian or Turkish rug can give joy to lovers of art for hours.

An Old Chinese vase of the Kang hi period can give exquisite pleasure to those who are educated to understand their texture, drawing and significance.

A carved ivory crucifix will demand respect and infinite admiration.

But what is more dismal than a doctor's office? Of all places in this world that require cheerfulness, doctor's offices are the most neglected.

I often wonder if they are in a conspiracy to make the poor patients worse by keeping them waiting in a barren room devoid of any one pleasing thing to distract attention from their ailments.

Generally there are four walls papered in dull green, a few straight-backed, severe chairs that say: "Don't you dare to be comfortable," a center table with a pile of back-number periodicals that have been handled by every invalid who has called for a year.

If a picture graces the dull green walls, it is generally of some clinician dissecting a body—scientific but gruesome.

Now with these surroundings, what malady would not be magnified to untold dimensions?

Perhaps there is method in this state of affairs. Perhaps the doctors fear that the patients will forget their symptoms if distracted by pleasure or interest. I think the doctors are wrong myself—I think a physician's or dentist's waiting room should be arranged as attractively and as home-like as possible.

I know of only one professional man who has considered his patients to the extent of entertaining them while they are obliged to wait for him. His waiting room is a perfect joy—one forgets pain and cares in the admiration of delightful surroundings.

Paintings grace his walls, not of the morbid kind but exquisite landscapes and figure pieces—perfectly lighted. A grand piano stands in one corner, open and inviting; palms and really comfortable chairs make one feel that she is there more on a visit of pleasure than pain—thus all dismal places should be brightened up with a few thoughtful expressions of consideration for people who are unfortunate enough to be obliged to go there and wait.

Remember, a work of art has the power to divert a lover of the beautiful from himself into the infinite.

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of Surroundings

LILLIAN RUSSELL



ORAL HYGIENE is indebted to Dr. Albert J. Wise, of Pittsburgh, Pa., for this opportunity of publishing, for the first time, the accompanying article by the late Lillian Russell. The portrait is reproduced from an autographed photograph in Dr. Wise's possession.

Georgia to Stage Great Health Meeting

Editor ORAL HYGIENE:

We are putting on a purely Educational-Health program, bearing particularly upon oral hygiene, at our state meeting this year, which is somewhat of a departure from our usual custom. The time is surely propitious for such a meeting, and wide-awake Athens, a city of beauty and culture, where our State University, State Normal School and State Agriculture College are located, is a most fitting place to stage such a meeting.

Dr. Percy Howe, of Boston, is to appear on the program, his subject being "Diet—Its Relation to the Development of the Teeth and Effect on the Oral Cavity."

Then we have prevailed upon that prince of good fellows, Secretary of the American Dental Association, Dr. Otto U. King, to come to us with the very latest ideas on oral prophylaxis.

Our neighboring state, Mississippi, is sending us a charming young lady, Miss Gladys Eyrich, who has done such creditable work in the Jackson Public Schools. They are also sending an exhibit which will undoubtedly help to put the great health message over.

Alabama sends us a son, Dr. Olin Kirkland, who will tell us something about the "Prevention of Peridental Diseases as a Health Measure."

We are looking forward with pleasure to the presence (health permitting) of Dr. Haidee Weeks Guthrie, of New Orleans, La., with her inimitable method of presenting the "Care of Children's Teeth."

We are concentrating our efforts on a great mass meeting Wednesday night November 7th at which Professor Willis A. Sutton, Supt. of Public Schools at Atlanta, will be the principal speaker. He has the health of the child, in both body and mind, at heart, and can present it in a most convincing manner. He does not believe that education means simply the acquirement of the 3 r's, but the filling of the head and heart and body with good, wholesome, useful knowledge.

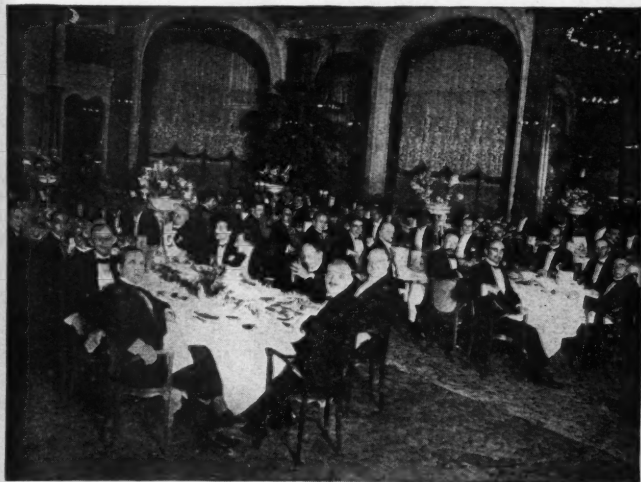
These, with the addition of several strong papers by men of our own State, and clinics dealing exclusively with oral prophylaxis, make up one of the most interesting programs we have had in recent years.

Yours very truly
C. M. Barnwill, Jr., D. D. S.
Chairman, Program Committee
Georgia State Dental Society.

Atlanta, Ga.



The American Dental Society of Europe Meets in Paris



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Banqueting at the Majestic



THE Paris conference, just concluded, marked the fiftieth anniversary of the American Dental Society of Europe. The meeting, of four days' duration, was held at Hotel Majestic. The Society is comprised of several hundred dentists, holding American degrees and practising in Europe.

The organization was founded in Switzerland by five American dentists a half-century ago, the founders being: Dr.

George W. Field and Dr. N. W. Williams of Geneva; Dr. J. C. Van Marter and Dr. C. M. Wright, of Bale; and Dr. Charles T. Terry, of Zurich. The Society meets yearly when papers are read and clinics presented by leading dentists of Europe and America.

At this year's meeting special attention was given to the diagnosis of general disease caused by dental disturbances.

Dental education and dental colleges also claimed a share of the members' attention,



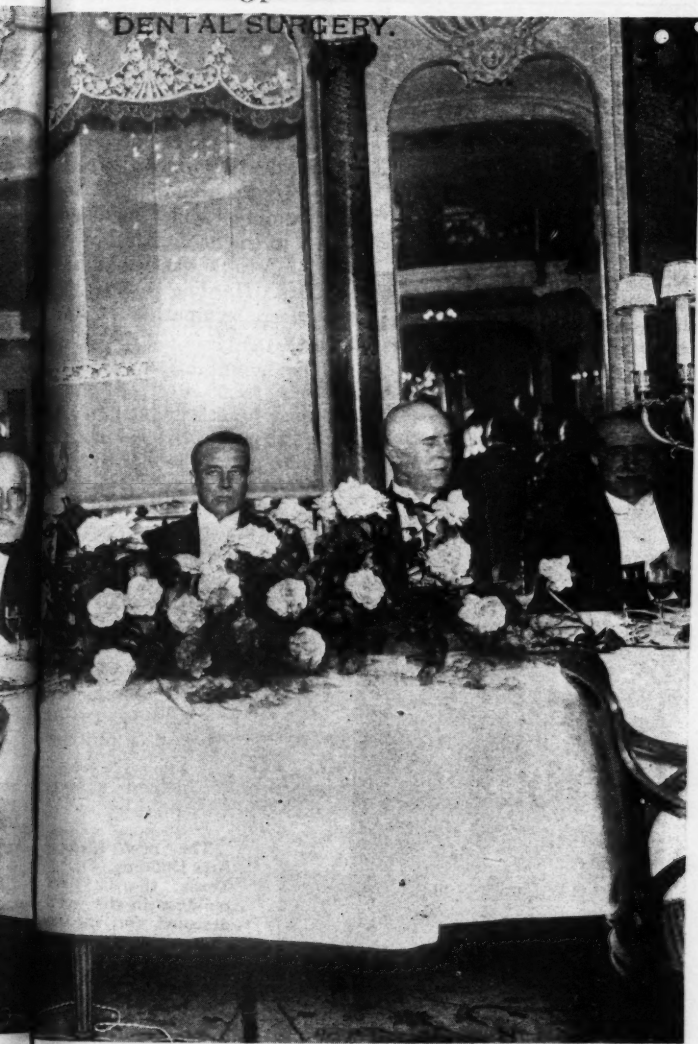
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Left to right—Doctors Brophy, Crawl, (president American Dental Society, Europe),

At left, Brophy, of F

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Soci (Europe), Roussel, (president American Dental Club, Paris), and Aguilar.
left, of Paris

particularly the recent action of the Carnegie Foundation, which has completed a survey of the dental colleges of America and Europe and has taken up the question of providing dental education in institutions of learning in America.

Among relatively new processes which were demonstrated at the convention were the treatment of dental diseases by violet ray, and the technique of applying a new pyor-

rhea vaccine, developed in France, and which experts are testing.

The Society was in session when news came of the death of President Harding at which time the meeting paused for one minute while members stood in silence with bowed heads. A cable was dispatched to Mrs. Harding expressing the deep sympathy of the Society.



The new Medical Arts Building, Dallas, Texas; the largest building in the world designed for use exclusively by physicians and dentists. The A. D. A. convenes in Dallas next year.

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Pedodontia

Space Maintenance after Extraction

By PHILIP R. THOMAS, D.D.S., Minneapolis, Minn.

Contributing Editor

TO one who is vitally interested in the maintenance of healthful mouth conditions of the children, it is very evident that the dental profession as a whole lacks foresight in dental service rendered children.

It is necessary to know the results of destructive processes in the child's mouth if adequate service is to be rendered. It is not enough to educate children to care for their teeth. As a preliminary to such care their mouth condition should be made such as to give the children a fair chance for mouth health by rendering proper service in the dental office.

In other words, it is not sufficient to fill cavities only, but the result of loss of tooth substance and of the teeth as a whole must be visualized and proper means

taken as preventives. Most practitioners advise parents to bring children in for examination about once in six months—about as sensible as for a physician to treat all children he sees with the same medicine and methods irrespective of what the symptoms might be.

The proper diagnosis of the mouth condition of the child reveals a variety of incipient conditions, which, without proper correction, not only destroy teeth, but also result in malocclusion and pyorrhea in adult life.

For example, let us point out one condition noted many times each day in the mouth examination of children. Following the extraction of deciduous teeth how many dentists protect the adjacent teeth and arch against the tipping and drifting which follows almost inevitably? We

The examination and measurement of one hundred mouths of children, following extraction of teeth with no space maintenance, showed that 97 per cent of the patients had lost from one to ten millimeters of space in the areas of the mouths. There can be no question about malocclusion resulting in these cases nor can there be much doubt of the incidence of pyorrhea in later life.

have failed as yet to see a space maintainer in the mouth of a child from which teeth had been extracted, placed by a dentist in general practice. This lack of prevention following damage is almost universal in the dental care of children.

The same men spend hours telling patients with pyorrhea the results of traumatic occlusion, when, at the same time, by extracting deciduous or permanent teeth for children and failing to take proper follow-up methods they are preparing thousands of patients for the periodontist's care.

The examination and measurement of one hundred mouths of children, following extraction of teeth with no space maintenance, showed that 97 per cent of the patients had lost from one to ten millimeters of space in the lateral areas of the mouths. There can be no question about malocclusion resulting in these cases nor can there be much doubt about the incidence of pyorrhea in later life.

Why spend all our time on the mass education of children along oral hygiene lines when we leave the mouths of the young patients in our own practises in such condition as to render futile anything the patient can do for himself?

Why not practice what we preach?

Two simple methods of space maintenance have been used and found adequate. A cast gold band or an orthodontia band may be fitted to the tooth next to the space to be

maintained with a bar, soldered to the band, extending across the space to contact with opposite tooth. If absorption of the deciduous roots has begun, a gold shell crown instead of a band may be used. It is advisable to use cast gold bands on six year molars to prevent caries.

If the deciduous fives are lost before the eruption of the six year molars, parents should be advised that the space can be cared for as soon as the six year molar erupts. In these cases band or crown the deciduous four and extend bar against mesial of the six year molar. The appliance will require recementing from time to time.

If this technique were followed universally by the dental profession a very valuable service could be rendered in preventing malocclusion and pyorrhea.

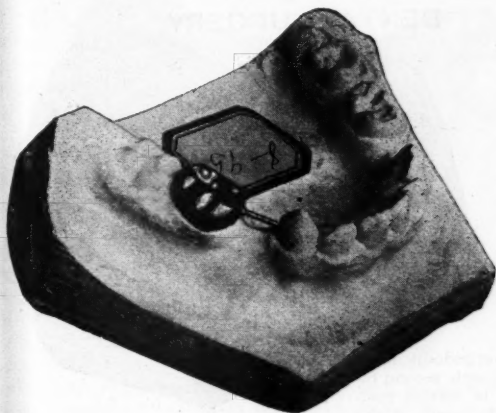
Space Maintenance Technique



WE were much impressed at the A. D. A. in Cleveland with the interest shown in space maintenance in the child's mouth following extraction. Although we have already offered something in these columns about the necessity for space maintenance, we feel that the subject is of sufficient importance to offer a practical solution of the problem, illustrating the use of small appliances.

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1. Illustrating the application of gold shell crown as an attachment for space maintainer.

The first thing of interest is the material and size of bands. In the construction of bands, nickel, silver, gold or any other orthodontic band material may be used. Seamless, contoured molar bands, numbers 10, 11, and 12, upper and lower rights and lefts, will fit the average deciduous pre-molars. These may be obtained from any firm manufacturing orthodontia bands.

For the bar to maintain space, orthodontic wire or tubing may be used. Gauge 17 is a good size to use.

Fit the band, solder the wire to the band, measure the space, cut the wire the proper length, and cement band to place. The greatest drawback in the use of bands is loosening on account of washing out of cement.

Dr. Chas. Baker, of Evanston, suggests that properly made gold crowns may be used on deciduous molars without disturbing occlusion where the roots are partially absorbed.

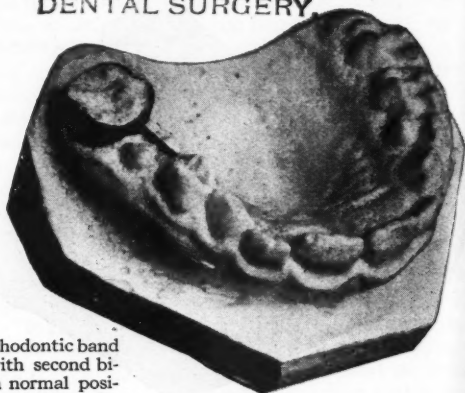
The use of crowns aids in the longer retention of the appliance. Where the deciduous five is lost before eruption of the first permanent molar, it must be impressed on the parent that as soon as the first permanent

erupts, the first permanent molar must be impressed on the parent that as soon as the first permanent

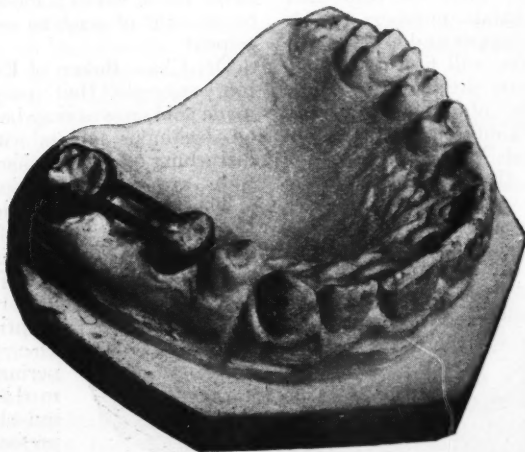


2. Illustrating cast gold band on first permanent molar with bar attached.

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 OF
 DENTAL SURGERY.



3. Illustrating orthodontic band and bar in place with second bicuspid erupting in normal position, showing the result of the use of an appliance.



4. Illustrates space maintenance after loss of first permanent molar. This for the purpose of maintaining proper alignment of teeth until a permanent restoration can be made.

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5. Illustrates fixed lingual arch with hooks on distal of cuspids, to maintain first permanent molars in position.

molar appears above the gum, the deciduous four should be banded and a space maintainer applied, extending distally to the mesial of the molar.

When the first permanent molar has more fully erupted, a cast gold band may be made for the molar and the application of the appliance changed. Banding teeth on both sides of the space is not good practice, as it may interfere with the physiological movement of the teeth, as well as with the development of the lateral areas of the arches. In applying the space maintainer, the bar should be kept below occlusion, as well as away from the gums, to permit of proper cleansing. If the bar bends, resting on the gums, it may be bent back to position with pliers.

The necessity sometimes arises for the maintenance in place of the first permanent molar, the deciduous molars

being extracted and the cuspids alone being in position in the anterior. A lingual arch may be applied as shown in illustration No. 5.

1. Illustrating the application of gold shell crown as an attachment for space maintainer.

2. Illustrating cast gold band on first permanent molar with bar attached.

3. Illustrating orthodontic band and bar in place with second bicuspid erupting in normal position, showing the result of the use of an appliance.

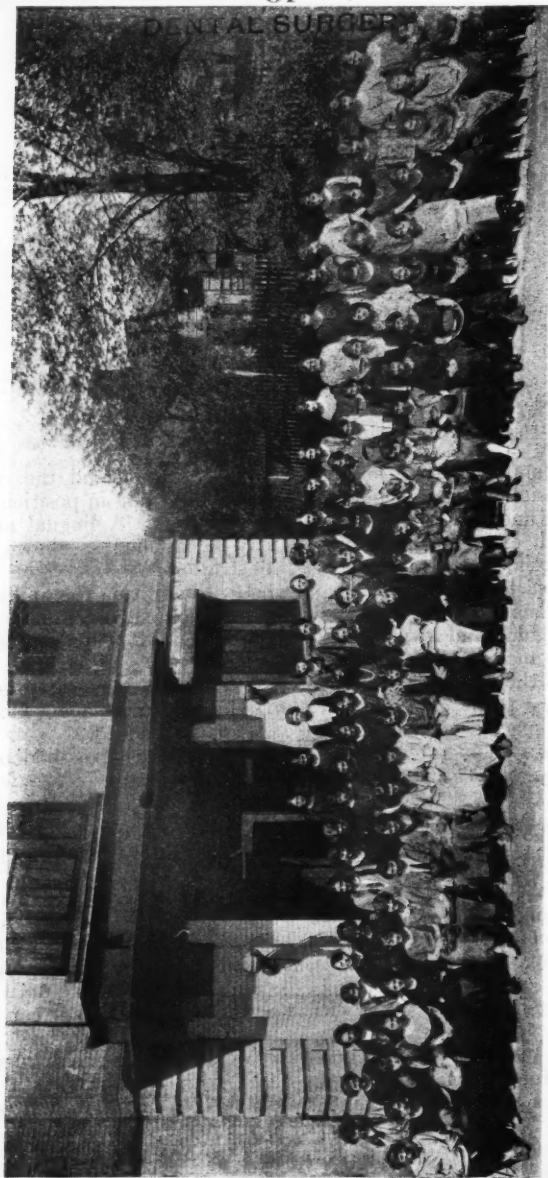
4. Illustrates space maintenance after loss of first permanent molar. This for the purpose of maintaining proper alignment of teeth until a permanent restoration can be made.

5. Illustrates fixed lingual arch with hooks on distal of cuspids, to maintain first permanent molars in position.

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Oral Hygienists, Class of 1923, Rochester Dental Dispensary

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Report of Committee on Dental Nomenclature*

By L. PIERCE ANTHONY, D.D.S., Philadelphia, Pa.
Chairman of the Committee



OUR committee begs to report as follows: In the report last year the committee set forth quite explicitly the objects and purposes of the committee, and while we have been criticized for not strictly adhering to our expressed purposes and objects, we feel that on the whole the work of the committee has met with general approval in the profession.

In some of the words we recommended last year it seemed expedient to compromise with a strict interpretation of our declared course, and accept and recommend some words which have found permanent place in our literature by association and long usage, but which do not conform in the strictest sense to the demands of scientific nomenclature. We have not lost sight of the fact that usage is the most potent factor in the development of language, and for that reason we have recommended practically a *status quo* in the case of some words that are possibly not etymologically sound, but whose value and status have already been determined by usage.

For the most part, however, the objections raised have been mostly of a personal nature, by which we mean that individuals have objected to the use of a particular word because of some personal prejudice. And that impels us to repeat what we said in the last report, that personal prejudices will have to be subordinated if we are to make any progress toward the goal of a comprehensive nomenclature.

In this connection we wish to comment on a criticism of the work of the committee offered by the Committee on Nomenclature of the American Institute of Dental Teachers. In commenting on the report offered last year the committee of the Institute says, "the committee empirically states that these complicated terms (the list of words recommended last year) shall supplant the simpler and more commonly used forms," and the said "committee questions the propriety of the publication of any such mandatory list of terms unless the teachers and writers of this country have had an opportunity to express their opinion for or against their adoption."

Your committee disclaims any intention of mandatory action and is fully conscious of the fact that any action by the committee on the question of use of words, even though indorsed by the A. D. A., is subject to the approval of the individual. The committee was not conscious of promulgating an edict under the strong language of "shall;" we merely recommended the use of words as preferable in our minds to those now in use, with no intention or thought of arrogating to ourselves any compulsory powers.

As to the propriety of publishing a list of words without first approval by the teachers and writers of the country, our definite conviction is that this approval or otherwise will, in the nature of the case, determine the final adoption of the words into our nomenclature. Conspicuous examples in proof of this assumption are found in the man-

*Presented to House of Delegates, American Dental Association, Cleveland, Ohio, September 10, 1923.

ner in which all previous reports of this nature have been received by the profession. The function of the committee as we see it is in a directive and suggestive capacity—the final status of any and all words to be determined by the usage of dental teachers and writers as well as other members of the profession.

The action of the committee is not intended or desired to be as the laws of the Medes and Persians, and an example of this is furnished in the presentation this year of the word "pedodontia" to take the place of "pediadontia" offered last year. While pediadontia has been in use for some years and has become fairly well established, in deference to the action of the society representing this phase of dentistry, and because of its sounder derivation, we recommend the word they have unanimously adopted to designate the specialty that has to do with the treatment and care of children's teeth.

Much discussion has arisen during the year calling for recommendations on the words "cast," "model," "articulation," and "occlusion."

With regard to the use of "model" in referring to the reproduction of the jaw in plaster or other material, we believe it to be in accord with the broad meaning and use of the term. A model is an object representing something to be made or something already existing; a material pattern of natural size or in miniature.

With regard to "occlusion" we feel that the word is gradually taking the place of articulation, the latter being acknowledged by all to be objectionable and incorrect in referring to the occlusal relations of the teeth. The Committee on Nomenclature of the old American Dental Association, as far back as 1896 recommended the substitution of occlusion for articulation, but it seems to have taken all these years for usage to finally begin to determine its status.

We offer for adoption the word "occlusion" with a more comprehensive definition, and also "articu-

lation," to be used in a more restricted sense.

Some objection has been raised to the termination "clasia" to mean "breaking down," on the ground that the original Greek word "klassis" means to break in the sense of breaking a twig or limb of a tree. This latter is its meaning, but it also means breaking up into parts, as the breaking up of a clod of dirt, and it requires little literary license to allow its use in the sense we have used it. Our own application of the termination we believe to be in accord with its use in the well-established words of osteoclasia, osteoclast, odontoclast, etc.

The word "buccal" we recommend to be used only as relating to the cheek, because of the confusion arising in its use in medical nomenclature when applied to the oral cavity as a whole and in dentistry as applied to the surface of teeth according to Black's method of nomenclature.

There has for years existed considerable confusion in designating the inner and outer surfaces of the teeth of the denture as a whole. The word "lingual" adopted some years ago serves the purpose so far as the inner surfaces are concerned, and we recommend the word "facial" to designate the outer surfaces of the teeth of the denture as a whole in preference to the two terms "buccal" and "labial" when used jointly for this purpose.

It is not intended that the word "facial" shall supplant the words "buccal" and "labial" except to designate the buccal and labial surfaces of the teeth collectively.

We would again call attention to the careless use of the term "dead teeth" to designate "pulpless teeth." Recently there appeared in the *Journal of the American Medical Association* an article by a dentist, throughout which he referred to pulpless teeth as "dead" teeth. Dead teeth can have only one meaning to the medical man, and such careless use of terms on our part we believe to be largely responsible for the prevalent attitude of the medical profession toward so-called "dead" teeth.

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There are other phases of our nomenclature than the suggested use of words that the committee would call to your attention. We would recommend that the careless method of indicating size by comparison with some commonplace object of indefinite size, such as the size of a hen's egg, a robin's egg, a pea, walnut, etc., be abandoned and size be specifically stated either in the English or metric system of measurement.

We would also recommend the following spelling of the words enumerated: gage, mold, dentin, disk, anesthesia, pyorrhea, septicemia, pyemia, anemia, edema, etc.; in the case of the latter words because of the general tendency to drop the first letter in both the Latin diphthong "æ" and the Greek diphthong "œ" occurring in words other than as the termination.

We would again reiterate our conviction that there is no objection to the adoption and use of words of mixed Latin and Greek origin, in order that we may avail ourselves of the full advantage of these languages as the basis of our terminology; any other attitude would compel the abandonment of hundreds of words now in use and the substitution of new ones that would add materially to the confusion already existing in our nomenclature.

LIST OF WORDS RECOMMENDED

alveolectomy (L. *alveolus* + Gr. *ektome*, excision). Excision of a portion of the alveolar process.

alveolotomy (L. *alveolus* + Gr. *tome*, *temnein*, to cut). Incision into the alveolus of a tooth, as for locating the end of a root of a tooth.

anesthesia. Preferable to *anæsthesia*.

apicoectomy (L. *apex*, gen. *apicis*, the end (of a tooth root) + Gr. *ektome*, excision). The operation of excising the end of the root of a tooth. To be used in preference to *apectomy*; *apiectomy*; *apicectomy*.

articulation. The arrangement of artificial teeth to conform to the requirements of the odontulous

space or spaces which they are to occupy, and to adequately serve the purposes of the natural organs which they are intended to replace. *Note:* Articulation refers to the actual placing of artificial teeth, one by one, into the required position; but articulation is not to be used to describe the occlusal relations of artificial teeth after they have been so arranged.

artificial denture. A structure supplying missing natural teeth in whole or in part. To be used in preference to *plate*.

bicuspid. To be used in preference to *premolar*.

bridgework. A partial denture retained by attachments other than clasps.

bridgework, fixed. Partial dentures retained with crowns or inlays cemented to the natural teeth, which are used as abutments.

bridgework, removable. Partial dentures retained by attachments which permit the removal of the denture. Usually the attachment is in two parts, one part being cemented to the natural tooth or its root and the other being a permanent part of the denture.

buccal (adj.). (L. *bucca*, cheek). Relating to the cheek. It is suggested that this word be confined to the above meaning. It is used now incorrectly, principally in medicine, to indicate the *mouth cavity*.

calculus, pl. *calculi* (L.). A stone-like or calcareous concretion formed in any part of the body. To be used in preference to *tartar*.

casting (n. and v.). *Noun*—A metallic object formed in a mold. *Verb*—The act of forming metal in a mold.

cementum. To be used in preference to *cement*.

centric occlusion. Contact of the teeth when the jaws are closed in the position of rest.

cervical (L. *cervix*, neck). To be used in preference to *gingival* as relating to the anatomical neck of the tooth.

- clasp denture.** A partial denture retained with clasps.
- conduction.** To be used in preference to *conductive*, as in conduction anesthesia.
- cuspid.** To be used in preference to *canine*.
- deciduous (adj.).** To be used as designating the teeth of the first dentition, in preference to the terms, *temporary*, *milk* or *baby*.
- dental (adj.)** (*L. dens, dentis*, tooth). Relating to the denture.
- dowel.** A metal post or pin used in attaching an artificial crown to the root of a natural tooth. To be used in preference to *pivot*.
- eccentric occlusion.** Contact of the teeth in the excursive movements of the mandible.
- endocrinodontia** (*Gr. endon*, within + *krinein*, to separate + *odous*, tooth). The study of the internal secretions in their relations to the teeth.
- facial** (*L. facies*, face). Term to be used to designate the outer surfaces of the teeth collectively.
- first molar.** To be used in preference to *six-year molar*, or *sixth-year molar*.
- fissure.** A fault in the surface of a tooth caused by the imperfect joining of the enamel of the different lobes. To be distinguished from a groove or sulcus.
- full denture.** A structure replacing the full number of natural teeth of both jaws.
- functional occlusion.** Such contact of the teeth of both jaws as will provide the highest efficiency during all the excursive movements of the jaws which are essential to the function of mastication without producing trauma.
- malocclusion.** Such malposition of the teeth as will interfere with the highest efficiency during the excursive movements of the jaws which are essential to the function of mastication. This would not necessarily indicate a lack of occlusal contact when the jaws are closed, nor would it always indicate traumatic occlusion.
- mandible** (*L. mandibula* from *mandere*, to chew). The lower jaw.
- maxilla** (*L. maxilla*, jaw). One of the upper jaw bones.
- maxillæ** (pl.). The upper jaw bones as an anatomical unit, or the upper jaw as opposed to the lower.
- maxillary and mandibular teeth.** Terms to be used, if desired, in referring to the teeth of the upper and lower jaws, respectively.
- mesial and distal.** These terms as used today have been objected to as not being in conformity with anatomical nomenclature, where they are used to indicate relation to the median line of the body. They have, however, become so fixed in dental nomenclature that we do not suggest any change.
- morsal and occlusal (adj.).** To be used synonymously as relating to the masticating surfaces of the bicuspid and molar teeth.
- normal salt solution.** A 5.84 per cent. solution of sodium chlorid in distilled water. This should be distinguished from *physiologic salt solution*, which is a 0.6 per cent. solution of sodium chlorid.
- occlusion** (*L. occludo*, to close, to shut). The contact of the teeth of both jaws when closed or during those excursive movements of the mandible which are essential to the function of mastication.
- occlusal embrasure.** The space between the marginal ridges of approximating teeth, mesially and distally, and the point of contact and the occlusal plane.
- odontotomy** (*Gr. odous*, tooth + *temnein*, to cut). The operation of cutting into the tooth structure.
- partial denture.** A structure supplying less than the full number of teeth in one jaw.
- pathodontia** (*Gr. pathos*, disease + *odous*, tooth). That branch of dentistry which has for its purpose the study and treatment of diseases of the teeth.
- pathology** (*Gr. pathos*, disease + *logos*, treatise). That branch of medical science which treats of morbid conditions, their causes, symptoms, etc. This term is being used to indicate a disease or pathological condition, which is

confusing, unnecessary, and undesirable.

pedodontia [pé'do-dont-ia] (Gr. *pais*, *paidos*, combining form *pedo-*, child + *odous*, tooth). That branch of dentistry which has for its purpose the study and treatment of children's teeth. To be used in preference to *pedodontia*.

pedodontist. One who practices pedodontia.

pericementum. The membranous tissue immediately surrounding the cementum of the tooth and between the cementum and the alveolar process. Preferable to *periodontium*.

periclasia (Gr. *peri*, around + *klassis*, breaking (down)). Used as a shortening for convenience of periodontoclasia. Should be used with a qualifying word, as in itself it does not mean anything in particular.

peridental (Gr. *peri*, around + *odous*, tooth). Relating to the alveolo-dental ligament. To be used in preference to *peridental*.

peridentia (Gr. *peri*, around + *odous*, tooth). That branch of dentistry which has for its purpose the study and treatment of diseases occurring around the teeth and their roots.

periodontoclasia (Gr. *peri*, around + *odous*, tooth + *klassis*, a breaking (down)). The destructive degeneration of the tissues about the root of a tooth. Substituted for *pyorrhea alveolaris*; *Riggs' disease*; *interstitial gingivitis*.

physiologic salt solution. A 0.6 per cent. solution of sodium chlorid in distilled water. This should be distinguished from *normal salt solution*, which is a 5.84 per cent. solution of sodium chlorid.

pontic (L. *pons*, *pontis*, a bridge) (adj. and noun). A substitute for a natural tooth. Used in preference to *dummy*.

prosthesis (n) (Gr. *pros*, to + *ithenai*, to place). Preferable to *prothesis*. (Because of the more definite application of the Greek preposition *pros*, as compared to *pro*, in this form.)

prosthetics (n.). Preferable to *prothetics*. (For same reason as in prosthesis.)

pulpless tooth. To be used in preference to "dead tooth," "devital tooth," "devitalized tooth." In cases where there is a "vital" pulp in a tooth or a "non-vital" pulp, it should be so designated; e. g., a tooth with a vital pulp, or a tooth with a non-vital pulp.

radiogram (n.) (L. *radius*, ray + Gr. *gramma*, a writing). The product or tangible result, as the film or the print thereof, of the radiographic process, actuated by radiant energy of whatever source.

radiograph (v.) (L. *radius*, ray + Gr. *graphein*, to write). The act or process of making a radiogram.

radiographer. One skilled in the art of making radiograms.

radiography. The art of making radiograms.

radiology (n.) (L. *radius*, ray + Gr. *logos*, treatise). The science of radiant energy. To be used as the generic term to indicate radiant energy from whatever source.

radiolucent (L. *radius*, ray + *lucere*, to shine). Term applied to substances that allow the passage of radiant energy light, but offer some resistance.

radiopaque (L. *radius*, ray + *opacus*, shady). Term applied to a substance that is impermeable to the various forms of radiant energy.

radioparent (L. *radius*, ray + *parere*, to appear). Term applied to substances that freely transmit the light of radiant energy.

Roentgen ray. To be used in preference to *x-ray*, and only where the specific ray is indicated.

roentgenogram. The shadow picture produced by the Roentgen ray on a sensitized film, or the print from the film.

roentgenograph (v.). The act of making a roentgenogram.

roentgenographer. One skilled in the art of making roentgenograms.

roentgenography. The art of making roentgenograms.

roentgenology. The study and use of the Roentgen ray in its application to medicine and dentistry.

second molar. To be used in preference to *twelve-year molar*, or *twelfth-year molar*.

sialosis (Gr. *sialon*, saliva + *osis*, a condition of). The flow of saliva.

sialotic (adj.). Relating to sialosis.

sulcus, pl. *sulci* (L.). A long-shaped depression in the surface of a tooth, the inclines of which meet at an angle.

third molar. To be used in preference to *wisdom tooth*.

traumatic occlusion. Such contact of the teeth of both jaws as would induce trauma during centric or eccentric occlusion, because of malposition of the teeth or disarrangement of the occlusal planes.

Vincent's infection. To be used to express the ulcero-membranous stomatitis caused by Vincent's spirillum and fusiform bacillus in preference to *Vincent's angina*; the latter being more applicable to the throat infection.

x-ray (n.). This word is used in-

discriminately as noun and verb. It should not be used as a verb. The word Roentgen ray is preferable. It should also be used with the small x rather than with the capital letter X, if used at all.

In concluding the report the committee would again earnestly solicit the co-operation of all committees representing the various specialties of dentistry, as well as all dental societies and individuals, to the end that progress in this department be apace with that so apparent in all other phases of dentistry.

Respectfully submitted,

L. P. ANTHONY,
Chairman,

C. N. JOHNSON,
R. OTTOLENGUI,
OTO U. KING,
C. E. WOODBURY,

Committee.

[NOTE. The report was accepted, and upon recommendation of the Reference Committee of the American Dental Association the words offered in last year's report are included in this, in order to bring the work of the Committee on Nomenclature up to date and centralized in one report.—L. P. A.]



Editorials

REA PROCTOR McGEE, D.D.S., M.D., *Editor*
212 Jenkins Building, Pittsburgh, Pennsylvania

The Editor welcomes manuscripts and will take best possible care of any submitted, but cannot be held responsible for them. Manuscripts should be accompanied by self-addressed stamped envelopes. Typewritten manuscripts are preferred and should be double-spaced and written on one side of the paper only.

Why Hamper Science?



“**R**ALPH GLODDEN, who has a private museum at Santa Catalina Island, has been busy of late digging up the bones of Indians buried hundreds of years ago. Among his collection is a box containing over 4,000 teeth taken from the skulls of

the unearthed Indians. They are shown with Glodden in photo above. A most interesting discovery was made when a dentist examining the teeth could not find one that was not in good condition," says an item accompanying this photo which just reached ORAL HYGIENE.

If these bones were left where they have lain for so many years and were then studied by men competent to pass judgment, the sum of knowledge might be increased.

It is impossible to say whether or not their teeth were healthy without examining the surrounding bony tissues. This has been made impossible by this style of nondescript curio collecting.

"The Weightier Matters of the Law"



COLLIER'S Weekly makes some very interesting remarks. Here is an editorial that is worth thinking over:

The end of summer found American delegates prominent in an international convention which urged the abolition of tobacco. Kalamazoo, Mich., put itself on record with a bunch of ordinances to regulate certain minor aspects of dancing.

The Board of Temperance, Prohibition, and Public Morals of the Methodist Episcopal Church wanted laws passed by Congress to prevent prize fighting, betting on races, and smoking by women and children; also for much severer censorship of the films.

These are only a few instances out of many.

At the same time the Law Enforcement Committee of the American Bar Association reported that our criminal

population during 1910 to 1922 increased 10 per cent faster than general population.

The prison population of England has decreased steadily since 1876. During 1921, in England and Wales, there were 63 murders; in the United States, with three times that population, there were far more than one hundred times as many murders.

In France during 1919 there were 121 robberies; in Louisville, Ky., there were 241, and in Chicago 1,862. France has 40,000,000 people.

This committee also reports that our machinery of justice is defective, and that our criminal situation "so far as crimes of violence are concerned, is worse than in any other civilized country." And it will get still worse as we waste the law trying to make other people act as some of us think right.

A true field of usefulness for our busy reformers lies in the much-needed enforcement among us of the Sixth and Eighth Commandments.

This is neither for nor against prohibition but it is certainly strong on good old-fashioned law enforcement.

Whether the law can enforce morals or not is debatable but we are all agreed that crime is not debatable. There have been times in American history when local government was so impotent that vigilance committees were necessary.

Let us hope that such a necessity will never occur again.

Coming!

"Little Journeys to the Fountain-Heads of Science," by C. Edmund Kells, D.D.S.

A splendid article on credit and collection methods by A. A. Johnson.



Laffodontia

If you have a story that appeals to you as funny, send it in to the editor. He may print it—but he won't send it back.

ANATOMY PROF.: "What are the names of the bones in your hand, Mr. Page?"

MR. PAGE: "Dice."



"Oh, what a cute little dolly! Does she say 'mama' when you squeeze her?"

"Naw! My dolly's a modern doll! She says 'Oh boy!' when you squeeze her."



PASSENGER (after the first night on board ship): "I say, where have my clothes gone?"

STEWART: "Where did you put them?"

PASSENGER: "In that little cupboard there, with the glass door to it."

STEWART: "Miword, that ain't no cupboard. That's a port 'ole."



We gather from many hints in the press that America has most of the world's gold, but no bananas.

—Punch (London).



"Well, Yabbsley made that same old banquet speech again last night!"

"Yep. That's his permanent address."

—Life



SONNY: "Hey, mister! Have you got anything in the shape of bananas?"

STOREKEEPER: "Yes, we have dill pickles!"

JONES: "Wife, can you tell me I am like a hen?"

MRS. JONES: "No, dear; why is

JONES: "Because I seldom anything where I laid it yesterday."



EXCITED VOICE ON THE TELEPHONE: "Say, Mr. Jinks, bandits have robbed the bank and run off with your car that you left parked in front of it."

THE VICTIM: "Well—all I got to say is, they showed rare judgment by robbing the bank first."



"Two penn'orth of bicarbonate soda for indigestion at this time night," cried the chemist, who had been aroused at 2. A. M., "when a glass of hot water does just as well."

"Weel, weel," returned Sandy hastily, "I thank you for the advice. I'll no bother ye after all. Guid night."



STUDENT IN ASTRONOMY: "Has anything ever been discovered on Venus?"

PROFESSOR (whose mind has wandered): "No, not if the pictures of Venus are authentic."



FRAN: "You think so much of your old golf you don't even remember when we were married."

BILL: "Sure I do. It was the day after I sank the thirty-foot putt."

HALITOSIS

AS DEFINED IN THE CENTURY DICTIONARY

(Hal-i-to-sis) N. N. L.

(L Halitus—Breath .i. Osis—Offensive)

Offensive breath, whether arising from diseased or neglected conditions of the teeth, mouth or nose or caused by disorders of digestion, respiration, the excessive use of tobacco, etc., may be readily overcome by the deodorizing properties of—

LISTERINE

Listerine is strictly antizymotic, it inhibits alike the acid fermentation of carbohydrates and the alkaline putrefactive processes of mixtures of meat and saliva, retained as debris about the teeth; hence, Listerine is antagonistic to the activating enzymes of fermentation so often the cause of Halitosis.

Many dental practitioners who advise their patients to use Listerine daily as a mouth-wash, also keep Listerine in an atomizer on the dental bracket readily available for use prior to operations, in self defense against pronounced cases of Halitosis

Lambert Pharmacal Company

Twenty-first and Locust Streets

St. Louis, Mo., U. S. A



MADE IN AMERICA **Traun's "Golddust"** TRADE MARK REGISTERED **Dental Rubber**

"GOLDDUST" RUBBER—AND WHY

Point 11—COMFORT

One of the qualities which can make a real altruist of a dentist is constant consideration of the comfort of his plate-wearing patients.

More or less common condition among plate-wearing patients is soreness and inflammation of the mucous tissues of the mouth. In many cases, the cause is traceable to the heat conductivity of the base rubber used.

It can become a "first-water" altruist the day you start making plates with "Golddust" rubber. The use of this material assures plates of absolute uniformity. They do not heat delicate mouth tissues, because the aluminum in it is a perfect heat conductor.

"GOLDDUST" THEREFORE MAKES PLATES OF ABSOLUTE COMFORT

(Another Feature of "Golddust" appears in next issue.)

PRICES:

\$4.50 per pound. \$2.25 per half pound.
1/5th pound sample box (about 7 sheets) \$1.00.

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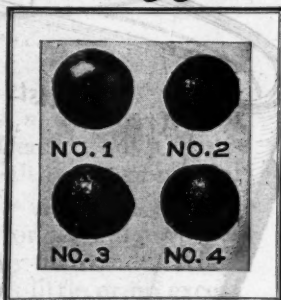
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of your favorite casting gold

Compare the two under these
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In both Alloys through two
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it, roll and test for break-
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melts on Aristocrats.*

Then run a series of melts,
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buttons and note the differ-
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No. 1. Aristocrats showing no pit-
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All four were melted 3 times, then
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Manufacturers of

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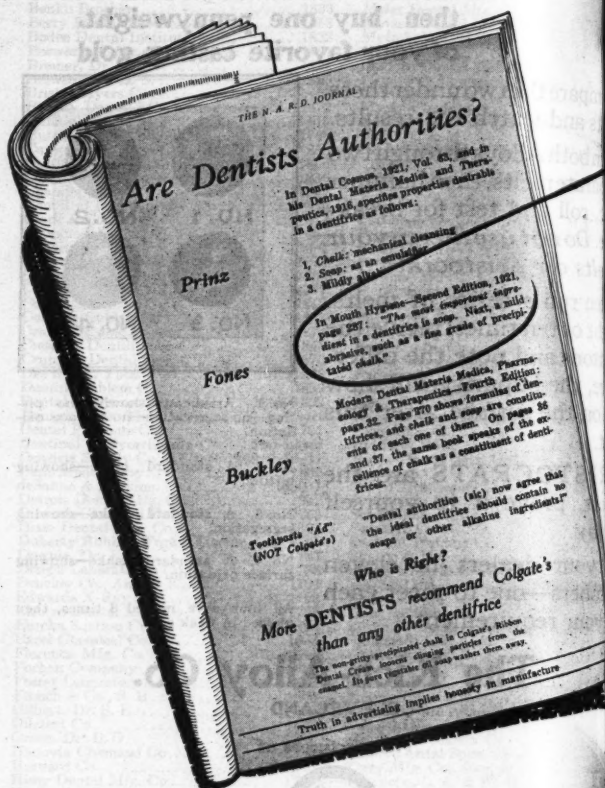


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For the Dentist Who Discriminates

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SOAP



Science and common sense agree on the right way clean teeth daily.

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The Most Important Ingredient in a Dentifrice

THE one function of a dentifrice is to cleanse teeth. The Dentist, not a dentifrice, can correct unhealthy or abnormal mouth conditions.

Soap is the best cleanser for general purposes that has ever been used by mankind. When properly made it contains little or no excess alkali over that which is chemically combined to form a neutral compound.

In Colgate's Ribbon Dental Cream the action of pure, mild vegetable-oil soap and a specially prepared precipitated chalk are combined. Colgate's contains no grit, for grit scratches tooth enamel. It contains no harsh drugs—nothing that can injure the delicate mouth tissues.

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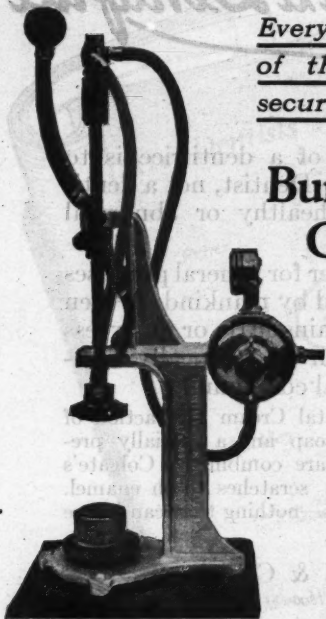
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The easily and accurately controlled operation at all points, and the fact that the entire operation is in plain view of the operator, make such results an every-day occurrence.

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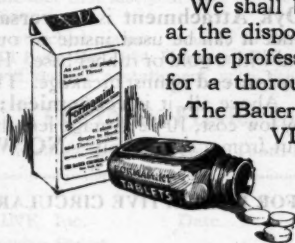
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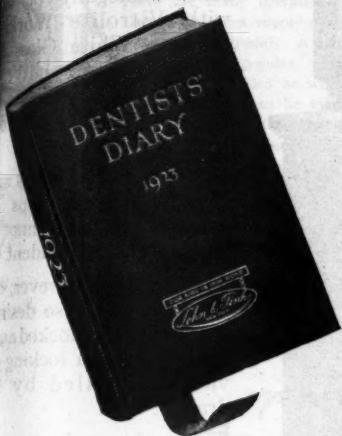
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For a Moderate Priced Quality Cabinet



This cabinet is made of solid mahogany or oak with Vitrolite Working Surface, White Glass Instrument Trays, and Ver Antique Marble Base of the same quality as in our very best cabinets.

It also has glass knobs with cut face, and stops on drawers so they cannot be withdrawn by accident.

The drawers, however, can be taken out if so desired. All drawers are locked automatically by a locking device controlled by one drawer.

This cabinet is a space saver being only 11 9/16" deep and 29 1/2" wide, but in spite of its small size its capacity will answer most of the requirements of the modern dentist.

American Cabinet No. 105

For the Dentist whose office space is limited this cabinet will be found to be ample in capacity. It is classy in appearance, well constructed and finished. The prices quoted below will appeal to the man of good judgment in values.

Price

Mahogany (Eastern) \$180

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The American Cabinet Co.

Two Rivers, Wis.

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In Order to Make Him
Use His Head**

There are many operations in dentistry where an extra supply of hands would be mighty useful. A wise dentist with the popular number of hands, decided he would use his head; so he invented a device that the profession has needed for a long time.

It's a—

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about it later**

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Why Revelation is a Tooth Powder

IN 1905, I started my investigation of dentifrices, having been in the drug business since 1875. I first had my product in liquid form, and, while doing research work, practicing upon my own teeth as well as upon the teeth of a few friends among them being a physician having gum trouble.

After a few weeks he informed me that there was quite an improvement in his gums and suggested that if my preparation was put in paste or powder form, so that it could be rubbed into the gums at night, he thought the beneficial results would be enhanced.

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That's why Revelation is a *powder*!

I shall be glad to send you the rest of the story—and a full sized can of Revelation for Teeth and Gums—on receipt of your professional card.

August E. Drucker

August E. Drucker Co., 2679 California St., San Francisco, Calif.

REVELATION



Disco
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Plea
Dr.
Add
Drug
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You're going to find that
LACTOGEN
is very different!

Lactogen is the powder that holds dentures firmly in place. And it contains antiseptics, such as boric acid, menthol, methyl salicylate and mentha piperita, which relieve the inflammation that almost always is suffered by the wearer of a new denture.

Lactogen forms a cushion of comfort and relieves pressure.

We're anxious to send you the large can for testing. Mail the coupon.

**This big can of
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Diozone Chemical Co.,
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Please send free large can of LACTOGEN, for testing.

Dr. _____

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Makers also of DIOZONE—A cleansing paste for artificial dentures.

O. H. - 11

The Time that isn't paid for

is the time wasted in trying to do good work with inferior instruments.

You can make every minute count if you use

ASKO BROACHES



(Ask us for samples and note the "hooks" with the everlasting grip.)

(The trade-mark that assures you of standard quality of excellence in barbed broaches.)



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**A. S. Koch & Sons,
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I would like to try Asko Broaches, send some free samples.

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Probably 90%
all Denture Troubles
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making dentures **UNION SECTIONAL
TRAYS**
that fit, use

They differ from other impression trays in that with them the impression does not have to be forced off the teeth in crumbled pieces but is easily separated in unbroken accurate sections.

the old impression trays, the impression has to be forced off the teeth in crumbled pieces, much time and considerable accuracy of detail are lost and the effort of joining the fragments together for pouring of

so with the Union Sectional Impression Trays.

Impressions taken with them are easily and perfectly separated in unbroken, accurate sections which are readily put together for pouring of cast, no matter what irregularities they presents.

Think what this means to you in time saved, not to mention the freedom from tedious and wearisome joining of impression-ments, and the better fitting dentures it makes possible.



Cat. No. 151, Partial Lower
Impression Tray.

See for yourself by giving them a good
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UNION BROACH CO. INC.,
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You may send me the following trays on 15 days' trial:

- No. 1—Straight Crown and Bridge Sectional Tray with 6 sections, \$1.25.
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Complete set of 5, \$10.00. (Choice of either No. 1 or No. 2).

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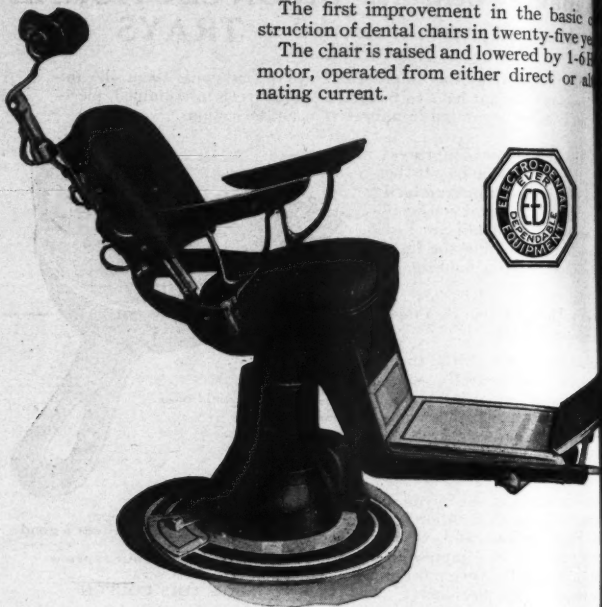
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The first improvement in the basic construction of dental chairs in twenty-five years.

The chair is raised and lowered by 1-6 H.P. motor, operated from either direct or alternating current.



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No after-pains
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Hermetically
Sealed

Will keep fresh
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indefinitely.

Perfect positive
anaesthesia.

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In Ampules possesses every one of the above points. Its principle ingredient, Ortho and Para-Mono-Iodo-Phenol, a powerful anaesthetic and antiseptic, is combined in Waite's Anaesthetic with cocaine or procaine to produce more positive and lasting anaesthesia and more rapid healing of tissue than ordinary procaine solutions in ampules.

There are no after-pains or soreness when you use Waite's Anaesthetic because:

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Used in millions of cases for over thirty years, Waite's Anaesthetic has proven safe every time.

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will quickly make you a master of this new and profitable science without private lessons or a post graduate course. See offer on coupon.

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80 Main Street
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Branches:
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Check, Sign and Mail this Coupon

- ☐ Send me sample box of ampules, free.
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and mail me Waite's Nerve Blocking Book FREE with any of the following offers:

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are
Procaine Tablets?*

-full strength

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Waite's
IN VACUUM
PROCAINE TABLETS

All standard quality procaine tablets are full strength when they are made—but how strong are they *when you use them?* Between the time they leave the maker and the time they are used, atmospheric elements cause their gradual oxidation and deterioration.

The only way to prevent this—to keep the

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When you buy Waite's "In Vacuum" Tablets you get the best procaine tablets money can produce with the assurance that they are 100% strength instead of possibly 60 or 75% efficient.

\$2 Package \$1 Introductory Offer—\$2.00 package of 100 Waite's (E) Tablets, Procaine 0.02 gram—Epinephrine 0.00005 gram for \$1.00. See particulars on coupon.

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Branches: Bridgeburg, Ont.; Paris, France

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Enclose professional card or stationery. Only one order to a dentist—money returned to anyone ordering twice.

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Enclosed find \$1.00 for which send me a \$2.00 package of 100 Dr. R. B. Waite's "In Vacuum" Procaine Tablets. I have not taken advantage of your offer before.

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In Bottles In Ampules Procaine Tablets

Closeups of Patients—No. 11



"Something new, eh, Doc?"

A fair exchange—

your card and the name of your dental supply house for a trial package of Lily Cups.

Send today!

Grandpa's old but he likes new-fangled ideas—like the Lily Cup. It's just another omen of the progress dental offices have made since he was a lad.

In those days dentists had to sterilize the glass. The Lily saves *you* this trouble. You'll appreciate the Lily even more than your patients will!

PUBLIC SERVICE CUP COMPANY

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Serve in a

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The Prophylaxis of Dental Caries

The Cause of Dental Decay: The presence in the mouth of lactic and butyric acids formed by bacterial action on food particles.

The Results of Dental Decay: Roughening, softening and penetration of the enamel; damage to the dentine; the formation of cavities affording lodgment for pathogenic organisms, with subsequent development of root abscesses, gingivitis, pyorrhea, etc.

How to Prevent Dental Decay: The daily, systematic application of a suitable, non-irritating, non-abrasive alkaline fluid is the best and most practical method of controlling or preventing dental decay. This is not an empty assertion, but it has the support of authority.

Note: Thousands of your fellow-practitioners have made the discovery that "Phillips' Milk of Magnesia" is just such a fluid. It completely fills the bill. It is the ideal alkalizer for use in the human mouth.

WHY YOU SHOULD SPECIFY "PHILLIPS' MILK OF MAGNESIA"

- It is pure, i. e., free from every trace of deleterious substances.
- It is a hydrate and, therefore, has a special affinity for acids.
- It acts immediately and efficiently, and has no disagreeable effects.
- It is three times as efficient as bicarbonate of sodium and *fifty times* as powerful as lime water in neutralizing acids.

HOW TO USE "PHILLIPS' MILK OF MAGNESIA"

Kindly instruct your patients to rinse the mouth with a tablespoonful of "Phillips' Milk of Magnesia," at least twice a day, and invariably at bedtime, as acidity is most likely to develop during sleep.

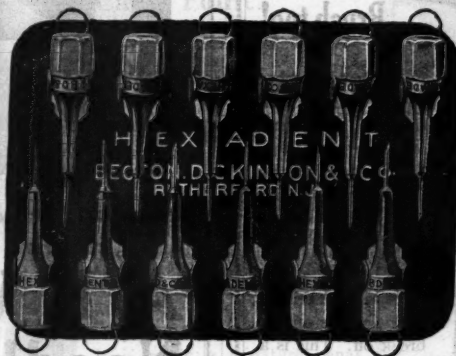
Complete directions are in each 4 oz. and 12 oz. bottle.—Drugstores

PHILLIPS' Milk of Magnesia

B-D PRODUCTS

Made for the Profession

HEXADENT NEEDLES



Put up one dozen on Metal Holder and Wrapped in Oiled Paper

For Protection and Convenience

Made in

Steel, Gold, Platinum-Iridium

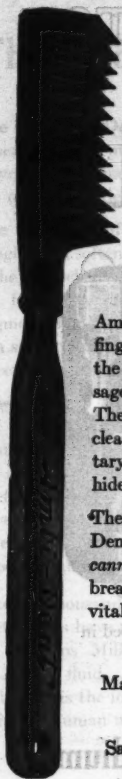
in a range of gauges and lengths suitable for every purpose. Every needle individually honed and guaranteed against leakage in service. Buy them in original packages of one dozen from your dealer.

Manufactured by

BECTON, DICKINSON & Co.

RUTHERFORD, N. J.

Makers of Luer Dental Syringes, Asepto Dental Syringes, B-D Water Syringes and Security Dental Needles.



Not just
a Tooth
Brush But
a Gum
Brush too!

Ambi-Dent's rubber finger-bristles clean the teeth and massage the gums, too. The rubber bristles clean—and are sanitary. Germs cannot hide in this brush.

Then too, Ambi-Dent's rubber bristles cannot come out or break off. This is a vital advantage.

Massages—cleans
polishes

Sample brushes:
\$ for \$1

Ask your druggist to stock them.

AMERICAN
TOOTH BRUSH
COMPANY
St. Marys, Pa.

**AMBI-
DENT**

DR. H. B. MARSH

Do you lose
your temper
when you
get hot?



*You can thoroughly
sterilize*

**A. P. W.
Needles**

in a hot flame and they
will retain their temper
because they are 30%
Iridium and 70% Plati-
num.

Safety and Utility

Because of their hardness
they hold a keen, cutting
edge, enabling you to
make an almost painless
incision.

Your patients will ap-
preciate them.

Your dealer knows.

American Platinum Works,
N.J.R.R. Ave., at Oliver St.,
Newark, N. J.

There is a
**Smith Silver Center
Canal Point**

In all of them

REGARDLESS of how crooked or difficult the canal, it can be filled with a Smith Silver Center Canal Point.

The fine pure silver wire which forms the core of the point, gives it the rigidity to withstand the necessary pressure to force it to the apex of the canal without curling or "buckling" at the tip. And yet, it is so flexible that it will follow the most difficult "crooks" and curves.

It is really a miniature canal plugger which is left in the canal after performing its proper function and hermetically seals the apical foramen.

It is a point which fills a great need of the Dental Profession and meets practically all the requirements of the root canal specialists.

It is a time saver and minimizes failures. A point you can depend upon. Convince yourself by using them on your next case—we will supply samples if you merely write your name and address on the coupon and mail it to us.

Lee S. Smith & Son Mfg. Co.
Sharpsburg Sta., Pittsburgh, Pa.

Gentlemen:—

Please send me samples of Smith's Silver Center Canal Points.

Dr. _____

Address _____

Address _____

Dealer _____

ORAL HYGIENE



BUTYN SOLUTION READY TO USE

Here, in answer to many requests, is BUTYN-EPINEPHRIN SOLUTION, all ready for immediate use, in a contamination-proof safety container. "The bulk ampule" is a happy phrase which perfectly describes this vial, which has proven satisfactory for years as a holder for biologic preparations, and is now adapted for an anesthetic solution.

As with an ampule, you simply insert your hypodermic needle through the sterilized spongy rubber diaphragm and draw out the required amount of solution. But, with this "bulk ampule" when you withdraw the needle, the vial is at once hermetically sealed, preventing contamination. Careful tests have proven the exceptional stability of this solution in this container. The cover is crimped on to prevent tampering with the solution.

$\frac{1}{4}$ " needle or longer may be used.

NO AMPULE TO BREAK
NO TABLETS TO DISSOLVE
NO WASTAGE OF SOLUTION

Net price in U. S. A.
\$2.25 per 100 c. c. container.



THE ABBOTT LABORATORIES

Dept. 97, Chicago

NEW YORK
LOS ANGELES

SAN FRANCISCO
TORONTO

SEATTLE
BOMBAY

Dealer's Name.....
Address.....
Send me..... 100 c. c. containers of Abbott's Butyn-Epinephrin
Solution at \$2.25 each.
Dr.....
Address.....

The Carpule Idea and the Dental Profession

The Perfection of Cook Carpule System of Hypodermic Medication, a Distinct Advance in Oral Surgery

THE many benefits of local anesthesia have always been handicapped for the dental practitioner by the numerous imperfections in both the old-fashioned style of hypodermic syringe and the form in which the medication was presented.

Perhaps hundreds of types, of hypodermic syringes have been offered to dentists, all of them just some modification or other of the old muzzle-loading, antique instrument that was used by the first man who ever gave an injection of cocaine.

But at last a real improvement has arrived. This improvement is a scientific evolution that perfects the whole system of hypodermic medication and presents in the one entity both the instrument and the medication as an

INSTRUMENT OF PRECISION

This is the Cook Carpule Hypodermic Syringe.

As great an advance over all other systems of hypodermatics as is the modern magazine rifle over the squirrel gun of old Daniel Boone.

The Carpule System solves the physiological, chemical, bacterial and mechanical problems of hypodermic medication.

It makes the hypodermic injection a thing of accuracy, convenience, speed and precision.

It saves time, and time means money.

It brings the hypodermatics of dentistry up to the scientific level of modern practice.

Write for information on the Cook Carpule System at once and arrange for a demonstration.

COOK LABORATORIES, Inc.

O. H. 536 Lake Shore Drive

Chicago, Ill.



WHY TRUBYTE CROWNS are Semi-fit

In borrowing a term from the tailors, it might be well to explain that "semi-fit" is just a step below "custom-made" or "made-to-order."

It would be very nice, of course, if every dentist was equipped for making

individual crowns for each case requiring such service, *and* it would be very nice if every patient could afford to pay the fees which such service commands.

However, there are a lot of semi-fit suits which look "top-hole" after a fitter has made the necessary alterations. Likewise, there are an increasing number of beautifully matched **Trubyte Crowns** in the mouths of patients who appreciate both beauty of design and skill of workmanship, yet who cannot afford either a cheap make-shift or an individually baked crown restoration.

If you set porcelain crowns you should set

Trubyte Crowns

Your Dealer or Direct

THE DENTISTS' SUPPLY COMPANY
NEW YORK

“—another advantage that Smith's Copper Cement has over any other cement, is the absence of that putrid odor when a crown set with it is removed.”

—so writes a dentist in Milwaukee. His letter on the opposite page



**Did you see
the big sign
in Cleveland?**

Lee S. Smith & Son Mfg. Co.,
Pittsburgh, Penna.
Gentlemen:-

I have used Smith's Copper Cement since its first inception and can truthfully say that I am glad to have it in my office. I use it as a universal cement, that is, not only using it for filling for deciduous teeth but for crowns, bridges and inlays. I have found by actual tests it will not discolor in the mouth. Another advantage it has over other cement is that when a crown is removed for some particular reason there will not be that putrid odor that is found when other cements are used. I am glad to write this endorsement and you may use it for publication if you so desire.

Yours truly,
(Name on request)

JOHN HOOD COMPANY
178 TREMONT ST. BOSTON

"All Is Not Gold—"

No "Pig in the Bag" buying when you buy Hood's Gold Shells and Solders

You get the Gold you pay for.

A 22Kt stamp *may* legally mean something slightly different, but not on Hood's Golds.

In the making of Hood's Gold Shells and Solders no effort is made to profit by the legal leeway.

To the contrary every care is used to see that they are of the degree of fineness with which they are to be marked.

And back of Hood's Golds is the confidence inspiring reputation of fifty-eight years in the manufacture of Highest Grade Dental Golds.

**You Get Your Money's Worth
When You Buy
Hood's Gold Shells and Solders**

JOHN HOOD COMPANY
178 TREMONT ST., BOSTON

**No post-pain with Alvatunder—
an exclusive advantage of the
oldest local.**

The formula of Alvatunder, the oldest local, embraces ingredients which control post-operative pain. So, following an operation conducted under Alvatunder anesthesia, it is *not* necessary to employ other means to guard

against post-pain. This has always been true of Alvatunder. Nothing new—just a reminder of one of the many reasons why you will *like* Alvatunder—why it has found favor for so many long years.

Sold by dealers.

On request we shall be glad to send sample of Alvatunder in the procaine form; no narcotic blank required. For those who prefer cocaine, the cocaine form of Alvatunder is still manufactured.

HISEY DENTAL MFG. CO.

ST. LOUIS, U. S. A.

A Correspondence Course

By J. H. DOWNIE, D. D. S.

On Special Original Topics

This course will include the following subjects:

Compound and Compound Technic.

How to get the Maximum Suction.

Making Lower Plates for even the flattest of mouths with which the wearer can eat corn off the cob.

Making Partial Suction Plates that stay up, and do not destroy the remaining teeth.

The Downie Lock Denture for upper partials which locks into position and cannot come loose.

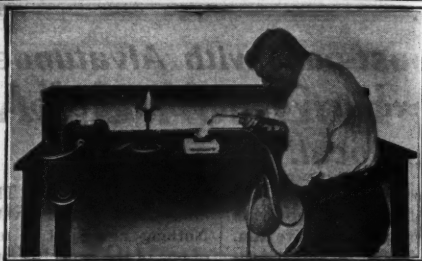
Making True Bite Gold Caps without dies.

Downie Wedge Blocks, the easiest way imaginable to put in one or two teeth without attachments.

Address Dr. J. H. Downie,

402 E. Ashby Place,

San Antonio, Texas



Prest-O-Lite Gas vs. City Gas —for the Dentist

Prest-O-Lite Gas gives you these superior advantages over the ordinary city gas supply in providing heat for the delicate and highly scientific work that must be performed in your laboratory:

Its pressure never varies. You can regulate the pressure to fit your requirements.

Its quality is always the same. You *know* you are going to get the heat you want—whether it be 2800 degrees or as high as 3300 degrees.

The handy tank takes up little room. When it is empty you can exchange it for a full one at any Prest-O-Lite Service Station—and you pay only for the gas.

Look into this—the modern, dependable gas service for the dentist. If you are not acquainted with your nearest Prest-O-Lite Service Station, drop us a line and we will reply with full information by return mail.

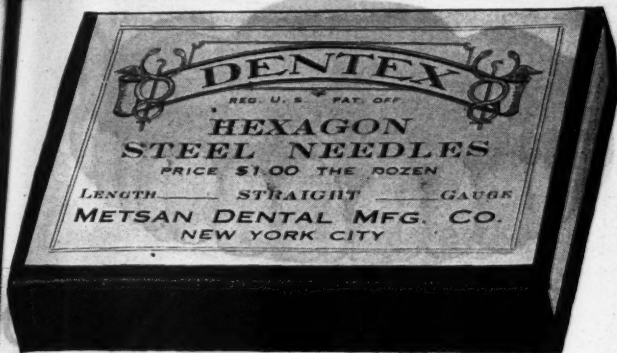
Prest-O-Lite Gas and Prest-O-Torch

THE PREST-O-LITE COMPANY, Inc., Indianapolis, Ind.
Small Tank Sales Department

New York Office: 30 East 42nd Street

Pacific Coast Office: 599 Eighth Street, San Francisco

In Canada: Prest-O-Lite Company of Canada, Ltd., Toronto



Here's that good Dollar Needle

You've been looking for a needle which will give you good every-day service, and yet cost you but one dollar a dozen, haven't you?

Dentex is just the needle you've been looking for.

Not "fussed up", without any of the fine details of the highest grade needles, Dentex is the needle which will give a dollar's worth of service,—and then just

a little more. Many dentists want a good, reliable needle, like the Metsan, but their work does not require as finely and delicately finished a needle. To these dentists we

offer a good needle at One Dollar the Dozen.

And Metsan, the only specialist in dental syringes and needles exclusively, designed this needle after careful tests in practical experience. Just those features which make for service in a needle under ordinary circumstances, with just enough fineness to make it a trusty friend adequately describes DENTEX.

DENTEX
\$ 1 The Dozen —

Dentex is a good dollar needle—you can take Metsan's word for that.

Ask your dealer —DENTEX, \$1.00 the dozen, standard sizes and gauges.

DENTEX

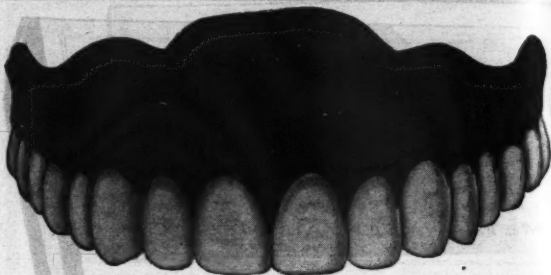
Write for a complete booklet describing dental syringe and needle equipment

Metsan Dental Mfg. Co.,
 Please send free booklet:

211-O East 62 Street, New York

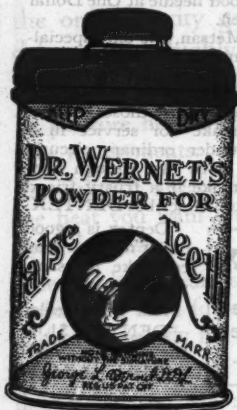
Dr. _____ Address _____

Dealer _____



Adhesion—Derm

The ORIGINAL Plate Powder



Instant adhesion for a new denture the "anxious expectancy" of every patient. If they get it, you are a wonderful dentist. If they are disappointed, it is something very difficult to explain why. Dr. Wernet's Powder will give instant adhesion, confidence and comfort.

Dr. Wernet's Does These Things

- 1—Gives instant adhesion ("Suction").
- 2—Permits patients to eat meals the first day with comfort.
- 3—Stops any tendency to gag or vomit.
- 4—Enables patient immediately to talk properly.
- 5—Prevents rubber-sore mouth.
- 6—Overcomes nervous habit of pushing plate with the tongue.
- 7—Prevents despondency and disappointment.
- 8—Keeps patients cheerful and confident.
- 9—Creates satisfied patients and builds your practice.

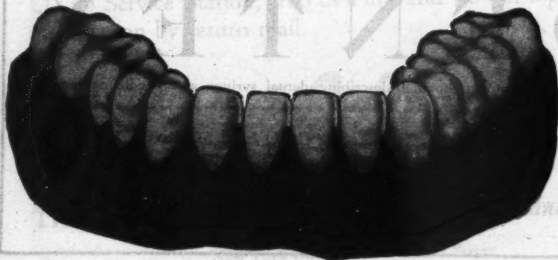
H. R. LATH &

U.S.

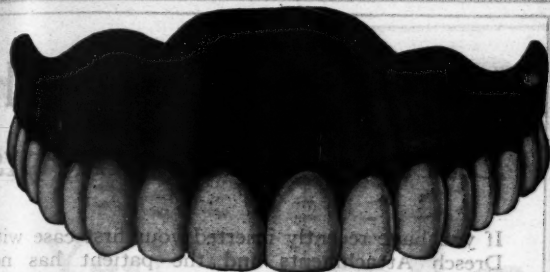
116 B
New Y.

Sold by drug
stores and d

WERNET D



Pacific Coast Office: 290 South Street, San Francisco
In Canada: F. W. G. L. Company of Canada, Ltd., Toronto



-Dernet's Powder

Dr. Wernet's Powder for False Teeth

(A White Powder)

The latest tool in Dentistry. In color, taste, fragrance, and adhesive action vastly superior to any other apparently similar preparation.

Dr. Wernet's Powder for False Teeth

(A White Powder)

is being widely used by the profession

- On wax trial plates for articulation
- To keep cotton rolls from slipping and sliding
- To stop any tendency to gag or vomit
- On partial plates after extraction
- On temporary plates
- On plates for flabby ridges
- On old plates after changes have been made in them
- To eliminate bite plate trouble
- To cure blister or sore spot after plate has been trimmed

TH & COMPANY, Inc.



Your First Case with Dresch Attachments

If you have recently inserted your first case with Dresch Attachments and the patient has not returned, *don't worry*. The reason the patient has not returned (as customary in the past) is that there is no soreness that requires your attention.

You probably took special notice of the lateral movement of the attachment which made it easy to insert the case, even though one abutment stood at a bad angle. This same feature removes binding or tension between the abutments, so naturally the case has been comfortable ever since the patient left your office.

And the denture being tissue-bearing through the perpendicular movement of the attachment, the masticating load has been distributed over a wide tissue area. This has eliminated the usual soreness caused by the "digging in" action of the buccal edges of the denture. And of course, there has been no stress on the abutments and they are also comfortable.

If the reader has not been fortunate enough to insert his first Dresch Attachment case, our authoritative free literature will be a revelation. Send for it this minute.



The Dresch Laboratories Company

622 Madison Avenue, Toledo, Ohio

A real syringe
for \$1?

Yes!
if you act
NOW—

This all-metal syringe is well-named "Boilit." Boilit it as often and as long as you like—the steam-test washer is not affected. Positively prevents leakage.

End adapter is removable for replacement when worn.

The R & R Boilit Syringe will be sold regularly at \$2.25. During the month of November we will fill orders at \$1.00 each if accompanied by an order for 6 ounces of

**The R & R
Boilit Syringe**



Nontoxo

the safe local anesthetic—
attended by ideal results.

Always uniform - - - Always ready

A balanced 2% Procain solution.

6 ounces \$4.00

Use this coupon now.

Dealer—Send me 6 ounces of Nontoxo and one R & R Boilit
Syringe as offered for \$5.00

Name.....St.....

City.....State.....

Dealer—Return this coupon to R & R for adjustment.

The Ransom & Randolph Co., Toledo, Ohio
P. O. Box 905

It is Adhesive Because it is Mixed Slowly

THE degree of adhesiveness of any cement measures the extent of chemical reaction which has taken place between the liquid and the powder. As the chemical reaction between the liquid and powder of Certified Enamel is more complete than in the case of any other silicate, Certified Enamel is more adhesive than any other silicate.

Its adhesiveness proves the chemical reaction to have been more complete. But, the adhesiveness of Certified Enamel accomplishes much more than to merely prove the extent of chemical reaction.

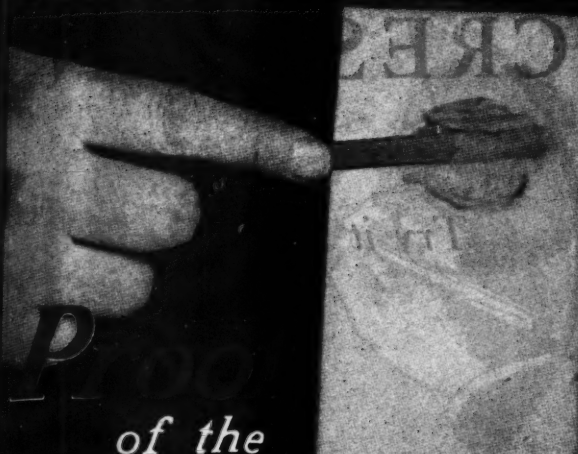
It means closer adaptation to the cavity walls. It reduces the risk of a "leaky filling." It results in the elimination of the "brown line."

And—as the completed mix remains plastic for a longer time on the slab, the operator has the decided advantage of being more deliberate in insertion of the filling.

*Your dealer can now furnish
the New Quantity Package.*

LEE S. SMITH & SON MFG. CO.
PITTSBURGH, U. S. A.

wly

ement
which
d the
liquid
nplete
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Proof of the **Adhesiveness of Certified Enamel**

This actual photograph taken in our laboratories, proves that Certified Enamel is so adhesive that the heavy glass slab on which it is mixed may readily be lifted merely by contact of the spatula with the mass while in plastic state.



The New Quantity Package displaces the four-color, ten-color and fourteen-color packages.

It contains 12 powders, 10 liquids and 2 bottles of varnish—really \$35.00 worth of material for \$30.00, which means a saving of \$.500.

CRESATIN

Try it in

Pyorrhea

**Non-escharotic
Antiseptic
Analgesic**

**In ozs. only
at
your druggist's**



It stands alone

LEE S. CO.



Write Your Own Insurance Against Post-Extraction Pain

If you will use and prescribe SED-A-VOL, you will have insurance with 100% protection, guaranteeing you the faith and good-will of every extraction patient after they have left your office.

You should give every patient two SED-A-VOL tablets before and two after the extraction. As they leave, give them a prescription. This way your insurance is assured.

If You're a User If Not a User

If you're a user, check in the margin to the left and we will send you a liberal supply of Home Treatment slips and prescription blanks.

If you are not familiar with SED-A-VOL, check in the margin to the right, and we will send you a convincing professional sample.

Dental Pharmaceutical Co., Inc.
HOLTON, KANSAS

Three Questions

What is your answer?

1. Should a rubber retention device, for the purpose of retaining plates, be all soft-rubber cups, united to the base by vulcanization, and should it be *without* any metal heads to come in contact with the palatine surface?
2. Should a retainer be sunk into a chamber so that only the top edge of the cups meet the palatine surface, thus drawing the plate firmly to the palate, without any plate wobbling?
3. Should there be a system of selection, enabling the operator to select a special retainer for each individual case, instead of trying to fit one style of retainer to every case?

If your answer to these three questions be **YES** then we have produced an article worthy of your consideration.

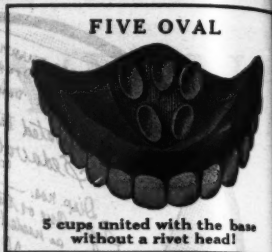
The cups of all Petry Retainers are soft rubber with *non-metallic* heads, insuring comfort.

The cups which are sunk deep into the chamber, bring the plate firmly against the palate, thus overcoming *plate wobbling* which is the cause of irritation.

By our system of selection, a style of retainer for every individual case may be had, which is a great advantage in fitting the various shapes of mouth formation.

Get acquainted with the system. It will pay you well.

Jacob Petry Retainer Co., North Side Sta., Pittsburgh, Penna.




Serving the Profession for More Than Sixty Years

Insist Upon

"THE OLD RELIABLE"



If your dealer is unable to supply you, address
W. H. CLERKE, Special Agent 1136 Venango St., Philadelphia



"I have had uniformly perfect success with the casting block in connection with

CUPELS"

Here is a letter from an Iowa dentist, whose name will be given on request:

Lee S. Smith & Son Mfg. Co.,

Pittsburgh, Penna.

Gentlemen:

I wish to acknowledge receipt of package containing wood casting block, etc., for which please accept my thanks.

I have had uniformly perfect success in using the casting block in connection with the Cupel. The combination in my hands produces better results than I have ever been able to obtain with any other form of casting device, and I feel sure that had this been put on the market twenty years ago there never would have been the array of complicated casting devices which have so confused the dentist and cluttered up his laboratory.

Yours very truly,

.....D. D. S.

If you are using Smith's Cupels and the No Plaster Method of Inlay Casting, and have not received the casting block and pattern paint, developed for use with Cupels, ask for them now. They are sent gratis to Cupel users.

Lee S. Smith & Son Mfg. Co.,
Pittsburgh, U. S. A.

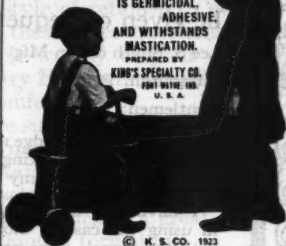
KING'S SPECIAL

A Filling For Children's Teeth

KIDDIES FILLING

IT HARDENS THE DENTINE,
IS GERMICIDAL,
ADHESIVE,
AND WITHSTANDS
MASTICATION.

PREPARED BY
KING'S SPECIALTY CO.
FORT WAYNE, IND.
U.S.A.



© M. S. CO. 1923

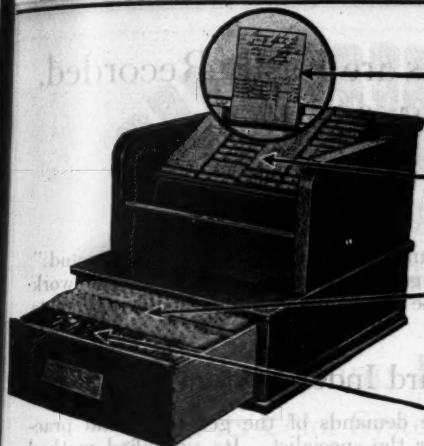
Price in U. S.

\$2.50 per package

through all reliable dealers

King's Specialty Company

Fort Wayne, Ind.



Complete financial and clinical record of every case, with only "One Writing." Original record becomes permanent case history.

Every active account visible. These compartments contain records of patients under active treatment.

Permanent files for case histories after account is paid in full.

Temporary file for case histories after completion of the treatment but pending payment of the account.

Cabinet Designs

Better Case Records—Less Effort New Life to Collections



Secretary Design

A single writing on a single form gives you a complete, accurate and permanent written record of chair time, laboratory time, material costs, a charted record of work completed and uncompleted and a history of all payments on the account.

A method so complete and so accurate that no item can be overlooked, yet so simple that you or your secretary can handle in half the time of your present system.



Pedestal Design

Gives new life to your collections, prevents overlooking of appointments, reminds former patients when teeth should be examined, acknowledges to physicians work done for their patients and provides the original case record for court testimony in case of a malpractice suit.

Mail that coupon for further particulars. It costs you nothing to investigate the McCaskey System but it is costing you considerable to be without it.

THE McCASKEY REGISTER CO.
ALLIANCE, OHIO

McCASKEY
DENTAL SYSTEMS

COUPON

Send me particulars

Secretary Design.....

Pedestal..... Cabinet.....

Name.....

Address.....

City.....

Accounts are Easily Recorded, Safely Kept, Quickly Found

Any account is located with the "turn of a hand;" a glance gives you the complete story:—work done, time consumed, charges made, payments received.

Card Index System No. 2

meets the demands of the general dental practitioner or the specialist. Its simplified method saves time and safeguards errors.

Outfit Comprises—Japanned metal case, lock and two keys, 200 record cards, 3 sets of guides, 50 examination blanks, 25 cash or bill cards.

Price Complete \$10.00

Colored Alphabetical Guides

Three Groups of Records

Active—Work in Progress.

Pending—Work done but unpaid.

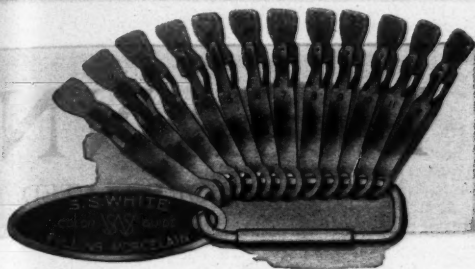
Closed—Accounts Settled.

At Your Dealer's

The
S. S. White Dental
Mfg. Co.

"Since 1844 the Standard"
PHILADELPHIA





S. S. White Filling Porcelain and its Color System

The twelve powders of this new filling material represent a definite color scheme. They are not heterogeneous colors from which, by mere good luck you may select a powder or blend powders that will match a given tooth.

A plan for determining first the color wanted and then the powder or blend to be used has been developed, and the colors of S. S. White Filling Porcelain were worked out to conform with the system in a practical manner.

And the translucence of the filling aids your color matching by diffusion of the tooth color through the filling.

S. S. White Filling Porcelain

A New Agate Spatula; Tarno Steel Instruments for Inserting; A New Cocoa Butter, Varnish and Solvent; Sterilizable Color Guide; A Color Matching Method.

A Complete Development

described in booklet, free on request

The S. S. White Dental Mfg. Co.

Philadelphia

DeSANN

INCORPORATED

FOR the first time since the inception of the dental business, a radical change has been successfully accomplished in the manufacture of dental instruments.

Today, rusty or discolored dental instruments are as passe' as a beaver hat.

E. L. Hoskins

Staybryte Instruments

All that the Name Implies

Many first class dental dealers have already added them to their stock and second our claims of "superiority to any other make of dental instrument."

Ask to see the complete line of 150 shapes.

HOSKINS

PHILADELPHIA

We take pleasure in announcing that our new plant for the manufacture of

LIGHTNING Discs and Strips

is completed. Better quality and greater production permit us to offer the

Introductory Package

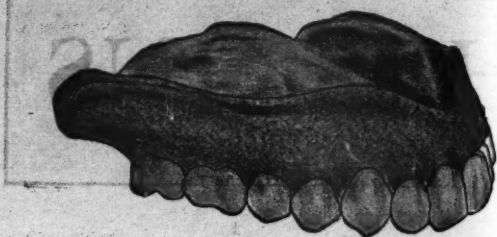
containing

12 Assorted Lightning
Discs. 6 Assorted Lightning
Strips.

\$1.50 per package

This offer holds good for a short time only.

Back To Nature—



McCormick's "Blended Pink" Rubber

Reg. U. S. Pat. Off.

gives the finishing touch to the otherwise perfect and natural looking denture. Use it in connection with McCormick BASE RUBBERS: No. 3 Dark Orange, No. 6 Maroon, No. 4 Light Red, No. 18 Red Weighted, No. 2 Olive, No. 25 Gold Flake, No. 12 Brown. \$2.50 per $\frac{1}{4}$ lb. box—from your dealer or direct.

E. J. McCormick Rubber Co., Inc. Lodi, N. J.



What they say about

DENTMEDIC

It is a positive Pulp Capper and Cavity Lining

ALL IN ONE

Easily applied, stays put. Does not run into retention points.

Warm bottle over flame a few seconds before shaking, apply DentMedic with loop broach.

Thousands of dentists are using DentMedic with best results.

Sole Distributor, Ransom & Randolph Co., Toledo O.
Tear this out and mail it to your dealer or will send direct upon receipt of \$1.50 check. DENTMEDIC LABORATORY, 3318 E. 55th St., Cleveland, O.

Send me 1 bottle DENTMEDIC (enough for 500 operations) \$1.50.

Dr.

Address.



Willgold ~ 3

For Better Inlays

Inlay perfection is attained by using Willgold 3—a 100% fine gold alloy with sufficient platinum to render it hard enough to preserve the smallest margins.

It casts with clean margins and minimum shrinkage. Willgold 3 is easily burnished, and undoubtedly superior to any other inlay casting gold on the market.

Price \$1.30 per dwt. from your dealer.

THE WILLIAMS GOLD
REFINING COMPANY

2978 Main Street BUFFALO, N. Y.
BRIDGEBURG, ONT.

Specify Williams Golds

Plates
Shells
Wire

Solders
Clasps
Nuggets

Casting Gold
Lingual Bars
Filling Golds

(See announcement on reverse side)



Williams Ready-Made Clasps

Save Time

Your time is too valuable to spend making clasps by hand when a Williams Ready-Made Clasp can be fitted to any tooth in half a minute. They are strong, rigid, and resilient, and can be ground, bent and rebent without breaking.

Band Measurements

No.	Inch	No.	Inch
1 Small Cuspid	11/16	4 Bicuspids	15/16
2 Cuspid	13/16	5 Molar	1
3 Bicuspids	15/16	6 Large Molar	1 5/16

Nos. 4, 5 and 6 have the occlusal rest

Prices

No.	Each	No.	Each
1 Cuspid . .	\$.90	4 Bicuspids . .	\$1.00
2 Cuspid . .	.90	5 Molar . . .	1.00
3 Bicuspids . .	1.00	6 Molar . . .	1.50

Descriptive Literature on request

Specify

Williams Golds

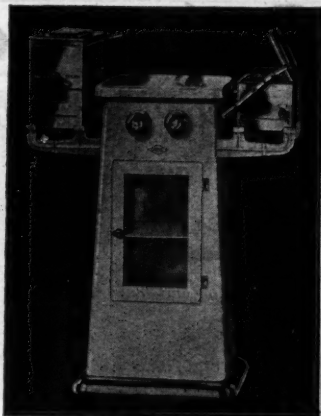
Plates
Shells
Wire

Solders
Clasps
Nuggets

Casting Gold
Lingual Bars
Filling Golds



*"Every patient looks for a
sterilizer"*



Show your patients how you Sterilize

Their interest in such matters is keen.

They like to witness an actual demonstration.

Seeing is believing, but to be shown is better yet.

An up-to-date sterilizer like this No. 1414-A convinces a patient and is a godsend to you in its convenience.

It sterilizes instruments, root canal material and water. Send for new catalog.

~~~~~  
Please send me, without obligation, data on your sterilizer No. 1414-A

Dr. ....

Address .....

Dealer .....

# CASTLE

*Sterilizers for Dentists, Physicians and Hospitals.*

WILMOT CASTLE CO., 1158 University Ave., Rochester, N.Y.



# Broken Dentures!

*You know how long it takes to vulcanize them.*



There is now a way to avoid that—to avoid the time, expense, trouble—and delay to the patient.

You can repair a broken denture or tooth while your patient waits—in less than an hour with

## Q. R. D.

and there will be

## No Vulcanizing to do!

Simply prepare the denture as you would a vulcanite case and apply Q. R. D. Platite. In a few minutes the Q. R. D. is dry and hard and the denture is permanently repaired.

With Q. R. D. any denture old or new can be repaired.

Ask your supply house or salesman to show you a denture repaired with Q. R. D.

Try a package of Q. R. D. Platite and see how satisfactory it is. You may purchase it either direct or through your supply house for \$3.00 a package.

**Anti-Pyorrhea Chemical Company**

Commercial Bldg. St. Louis, Mo.  
Manufacturers  
of Cato Tooth Paste and Platite



# Wilk Peripheral Seal



## Over Compression, Atrophy, Rebasing, Pain


Most modern technics produce a terrifically tight denture which, thru over compression, causes atrophy of the peripheral tissues with subsequent loosening of the denture, which then requires rebasing—sometimes two or three times. Such a denture causes your patient pain and discomfort because of the vise-like grip of the hard vulcanite.

## Wilk Peripheral Seal Eliminates Them All!

Over compression, atrophy, rebasing, pain and discomfort are all eliminated and perfect retention is secured by the use of the Wilk Peripheral Seal (covered by patents pending), which is a specially molded, specially compounded soft rubber bead projecting slightly along the periphery of the tissue bearing side of the denture. It is strong and durable, but, nevertheless, soft, velvety, yielding and non-irritant, its elastic properties completely sealing the periphery with the soft, velvety touch of a rubber glove. Try it on your next denture.

When supplied in new denture made by us, extra \$2.50

When inserted in old denture, including new gum 4.00

**Send**  **Coupon NOW!**

**Wilk DENTAL LABORATORY**  
**"JUST A REAL GOOD LAB"**

179 N. Michigan Boulevard  
 Chicago, Ill.

Wilk Dental Laboratory,  
 179 N. Michigan Blvd., Chicago, Ill.  
 Please send me, without any obligation on  
 my part, complete booklet about your Wilk  
 Peripheral Seal.

Name \_\_\_\_\_

Street address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_





## At the Convention-

*the Prosthetic Clinics at  
Cleveland were excellent  
both in plan and technic.*

**IF** you attended the annual Convention at Cleveland this year you must have noticed the general excellence of the prosthetic clinics, and it was especially interesting to note that practically every denture clinician used Trubyte teeth in all clinics involving the use of artificial teeth.



We were naturally very gratified to note such convincing evidence of the esteem in which Trubyte teeth are held by the leading prosthetic workers of the country. Of course we have striven for it, and, at least in a measure, we feel that we have earned it.

## Trubyte

—the Choice of National Clinicians

We are somewhat sobered, however, by the thought of the tremendous responsibility which the profession's approval places on us. We are fully aware of this obligation. Such confidence naturally stimulates us to renewed effort not only to maintain our present high standard but to eclipse all of our past efforts.

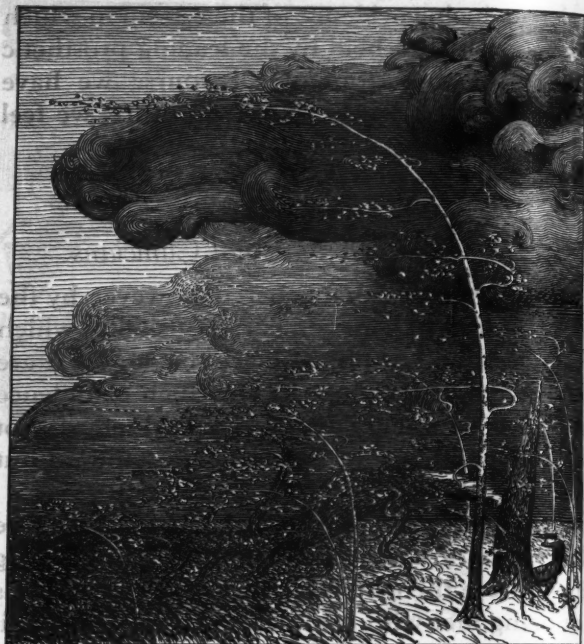
Of course, as you may know, there are thousands of Trubyte users out on the firing lines where the true tests for men and materials are being met with complete success. It is possible that you were unable to attend the Convention, but there is a certain satisfaction to you in knowing that the teeth of *your* choice are *also* the choice of clinicians and denture specialists of international reputation—men who have the world's markets from which to choose and who realize that their reputations depend to a very great extent on their choice of materials.

RESTORATIONS  THAT RESTORE

The DENTISTS' SUPPLY COMPANY  
of NEW YORK

(Trubyte Teeth are known as Anatoform Teeth in Europe, Great Britain and her Colonies.)





## THE REED that BENDS

The ability to bend or "give" under stress or strain is extremely valuable at times. During the baking of porcelain it is found that the mass of porcelain body is reduced nearly one-fifth in bulk.

When contracting porcelain exerts



pressure against Twentieth Century Split-Ring Anchorages, they "give" until the size of the ring is reduced sufficiently to accommodate the changing porcelain.

**But**—when contracting porcelain exerts pressure against pins or solid anchorages, the metal is unyielding, and, under the tremendous force, the porcelain is usually checked around the pins and therefore weakened.

Twentieth Century Solila Teeth have the original and unequalled soldered-in pins—the same pins that are used in Trubyte teeth, the finest artificial teeth ever produced.

For thoroughly dependable, medium-priced teeth use Twentieth Century Solila teeth. "Cheap" teeth are rather hard on one's conscience, don't you think?



*Your Dealer or Direct.*

**THE DENTISTS' SUPPLY COMPANY**  
**NEW YORK**



# CRESCENT ALLOY

**THE TOOTH SAVER**



Thirty Years of Success in the Dental World

5-oz. jar \$9.00—1 oz. bottle \$2.00

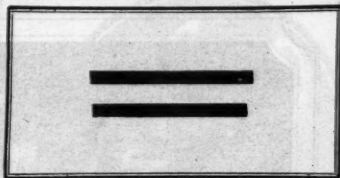
*At all Depots*

1 UNION SQ.



NEW YORK





## Are these two lines identical?

At a glance they *seem* to be. But they're not. Their length differs. You won't find this difference in

## Terry Handpiece Parts

**which—part for part—are precise and exact duplicates**

All parts are interchangeable—so accurately made that all duplicate parts are precisely alike. This distinction is exclusive with Terry.

Furthermore, Terry handpiece parts are adaptable to other makes of standard handpieces. And Terry parts, in some instances, possess exclusive improvements which, however, do not affect their interchangeability with parts of other standard handpieces. For instance: all Terry angle heads are equipped with Involute (curved tooth) Gears—originated by Geo. A. Terry.

Ask for folders—and about our famous Re-Building Service. Send your card.

**Terry Handpieces sold through responsible dealers only**

**Geo. A. Terry Mfg. Co., Inc.**

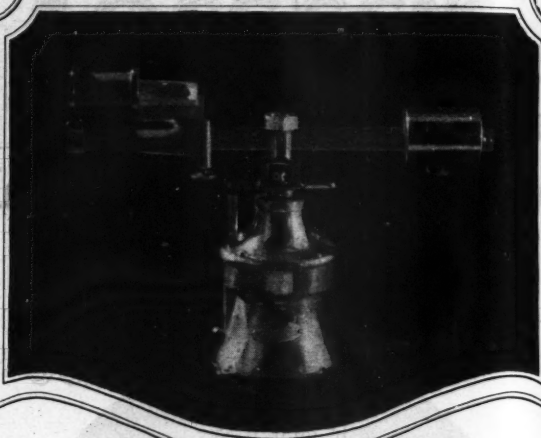
350-356 South Elmwood Ave.

Buffalo, N. Y.

Established 1910—Growing Ever Since

The Original **Terry** of Buffalo





## PERFECTION

### *The New Centrifugal Machine*

In the Perfection Centrifugal Machine you have an ideal combination. The cross-bar, crucible, rings, etc. are of a type that has been in use for a generation; propelled by the latest type of spring drive mechanism, running entirely in bronze bushings and ball bearings.

A thoroughly practical machine which enables you to obtain definite, uniform, standardized results.

*Write us for full particulars.*

**\$35.00**

**M. F. PATTERSON DENTAL SUPPLY CO.**

406 Sixth Ave. So.

Minneapolis

Minnesota



*Would a saving of  
from 15% to 50% on  
Gold Crowns Inter-  
est you?*

If so, let us tell you about  
MASEL'S Seamless Ready-  
made GOLD CROWNS.

Your name and address on  
the margin of this page and  
mailed to us is sufficient.



**Masel Dental Laboratory**  
1108 Spruce Street  
Philadelphia, Pa.

# SNOW WHITE IS A SHADE OF FLECKS CEMENT

**IN EXTRAORDINARY  
DEMAND**

**IT IS THE ONLY SNOW  
WHITE CEMENT AND  
IT IS ALL CEMENT.**

AT ALL DEPOTS



This is the Jelenko  
Ready-Made Clasp for  
small cuspids. Its lin-  
gual surface is solid,  
while its labial surface has the hair-  
pin form, distinctive in the Jelenko  
Clasp.



If, in adjust-  
ing this clasp,  
the lingual  
surface inter-  
feres with the  
bite, you may  
cut or grind  
it to accom-  
modate the bite. Its clasping qual-  
ities will not be injured.

Should the  
hairpin form,  
labially, pre-  
sent too  
much gold to  
view, cut a-  
way the up-  
per portion



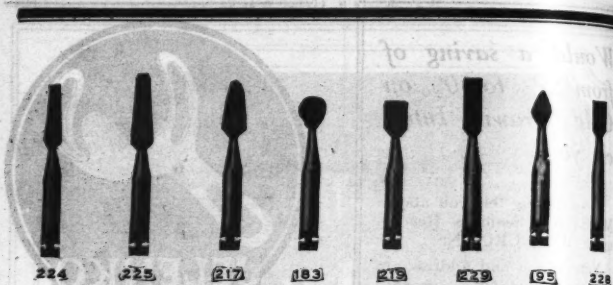
(A) and bend the lower to follow  
the cervical margin, where it will  
be below the normal lip line.

The Jelenko Ready-Made Clasp is made in  
7 sizes, rights and lefts, and will fit any  
tooth. Our "Technique Book," free on  
request, will tell you more about this  
remarkable clasp.

Sold by Better Dealers Everywhere.

**J.F. JELENKO & Co**  
136 West 52nd. St. New York, U.S.A.





## Green Carborundum Short Shank Points



**T**HESE Tracy Points are designed for use in preparing obscure cavities in posterior teeth and for shaping inlay cavities where the operator is hampered because of lack of space.

Wherever space is restricted, the Tracy Points of *Green Carborundum* are recommended.

The short shank makes manipulation easy and the *Green Carborundum* point will grind smoothly and quickly.

*Ask your dealer for Tracy Points made of  
Green Carborundum*

Set of 10 Tracy points in case \$2.00

**Lee S. Smith & Son Manufacturing Co.**

Pittsburgh, U. S. A.



## You Are Paying For It—

Why not let us  
deliver it

?

**T**IME is the only commodity you have to sell. Every minute spent in arguing a question that could and should be proved and settled by radiographs, represents valuable time lost which would soon pay for a

## THWAITES The Safe X-Ray

*As easy  
to operate as  
a camera*

*Ask us  
to tell you all  
about it*

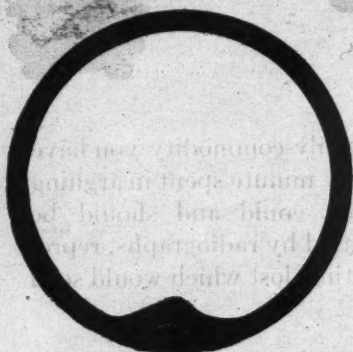
**THWAITES X-RAY COMPANY**  
GRAND RAPIDS, MICH.





**Like  
This**

**or**



**Like  
This**

Of these two bands, which is the more likely to properly fit the root?

The upper one is soldered the Li-Go-Sol way, which actually welds the ends of the metal together, and leaves no surplus.

The lower one is put together with ordinary solder which not only leaves a surplus that has to be ground off, but which detracts from the pliability of the metal.

A package of Li-Go-Sol selling at \$5.00 will do the work of eleven pennyweights of ordinary 22 karat gold solder—and do it better.

All dealers.

**LEE S. SMITH & SON MFG. CO.**  
**PITTSBURGH, U. S. A.**



# In Pyorrhea

*and those diseases affecting the gum tissues, mouth disinfection is an essential of successful treatment.*

The gums become so sensitive that harsh methods cannot be used, and yet the gums must be kept free from irritating food residues.

In such cases Dioxogen performs a real service, it keeps the gums clear, destroys pus and exudates, controls bleeding and has no irritating action.

Upon request a free sample will be sent to dentists who are not familiar with Dioxogen.

Every dentist should try

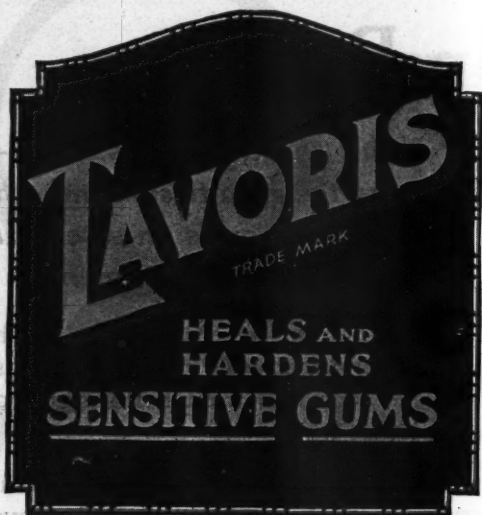
## Dioxogen

**The Oakland Chemical Co.**

59 FOURTH AVENUE

NEW YORK





Lavoris is the best ad for Lavoris.

It is made under an ethical formula of proved merit.

Lavoris is the *original* Zinc Chloride antiseptic.

*A complimentary supply to professional men on request.*

**LAVORIS CHEMICAL CO.**

918-3rd Street No.,  
Minneapolis, Minn.

1-3 Jarvis Street  
Toronto, Ontario



# OUT!

Out time—out materials—when services are not adequately remunerated, when collections are not followed up.

All a dentist has to sell is *time*—the materials that enter into the operation are incidental.

The Bosworth Plan and Efficiency System seeks to secure for the dentist the remuneration to which he is entitled; it is decidedly not a fee-raising scheme.

More than 3,000 dentists have benefited through application of Bosworth principles. Even though your practice is at present on a satisfactory financial footing, it is highly likely that the Bosworth Efficiency System will enable you to reduce the amount of time spent at the chair while maintaining or perhaps even increasing your present satisfactory income.

The coupon is provided for your convenience

---

Harry J. Bosworth Company,  
341 East Ohio Street,  
Chicago, Ill.

Please send me details regarding the Bosworth Efficiency System and Class Work advertised in October ORAL HYGIENE.

Dr. ....

Street .....

City and State .....



## Did You Ever Use Ready-made Crowns?

If not, let us send you the booklet that tells all about the Lincrown Method.

If you have used ready-made crowns and didn't like 'em—all the more reason why you should send for the booklet.

Just write your name and address on the coupon below and mail it NOW.

Lincoln Dental Mfg. Co.,  
1600 Chestnut Street,  
Philadelphia, Pa.

Send along your booklet which explains all about Lincrowns and how to get a handsome mahogany Lincabinet free.

Dr. ....

Address .....

Dealer's Name .....

## Are You A Careful Dentist?

Do your patients jump and cringe at the prick of the needle?

Progressive dentists are using STANAZINE, as a local anesthetic and to stain and sterilize the area to make the first prick of the needle painless.

Circular and information gladly given. It is sold on a positive satisfaction or money back basis. You can secure a liberal supply from your dealer for a small amount.

**Dental Pharmaceutical Co.**  
Inc.

HOLTON, KANSAS

# Pop!!

goes a  
dollar  
or  
two



The ECONOMY LAMP SOCKET saves you \$1.35 to \$2.35 on each bulb—for, with it, you can use 15c flash-

light bulb. Assembles to instrument handle. May be sterilized. Sent on 10 days' trial; mention dealer. \$4.50. "Best buy in 18 years," says California dentist. Manufactured by HOMER P. BREMER, D. D. S. Frankfort, N. Y.

## Economy Lamp Socket

(For Your Switchboard Mouth Lamp)  
State make of board



# Members of the Dental Profession Acclaim "Pyro-Form T" the most Remarkable Achievement in the Treatment of Pyorrhea

## PYRO-FORM T

(Chlor-oxy-  
hydrastide  
manganidine)

The perfection of this pharmaceutical for the exclusive use of the dental profession comes after two years of intensive research work. Today "Pyro-Form T" fulfills every medical requirement of the dental practitioner in his treatment of Pyorrhea, Trench Mouth and similar oral diseases.

Its use as a post-mechanical treatment—before the patient has been dismissed from the chair—has been submitted to the most severe clinical tests. Members of the profession who have investigated and used it acclaim it the most remarkable achievement thus far made in the elimination of Pyorrhea.

We shall be glad to forward a complete package of "Pyro-Form T" to members of the dental profession who request it.

## PYRO-FORM COMPANY

San Bernardino, California

Pyro-Form Company,  
San Bernardino, Calif.

Gentlemen:

I shall be glad to receive a complete package of "Pyro-Form T" with the understanding that I am placed under no obligation.

Name .....

Address .....

City ..... State .....





## Something Entirely New

### The Inlay Vulcanizer

The first basic dental  
patent in 20 years.

Make your plate the same as your inlays.

No boiling out—no packing—no  
pressing—no laboratory lathe—no  
dirt.

One pour of plaster—Exactly the same as an inlay.  
—Finish with the chair engine—Exactly the same as an inlay.

## *Introducing the New Plate Material Hodite*



No  
Taste



No  
Smell



Smooth  
to Tongue



Absolutely  
Unbreakable

Lighter than aluminum—stronger than steel—no  
color change—not expensive—easily worked—Rubber is  
porous, unsanitary, brittle. Rubber will be as dead as  
celluloid once you use this new material. Simple tech-  
nique.

**The HodCarrier People**

WEST PALM BEACH

FLORIDA, U. S. A.



## A Pulp Preserver AND A Nerve Capper



- ☐ Jodo-Formagen will instantly stop the most intense pain from exposed or inflamed pulp.
- ☐ It will dry up the secretion—assist in granulation—permanently heal and sooth hypersensitive dentine allowing the performance of painless operations.
- ☐ After capping an exposed nerve with Jodo-Formagen, the cavity can be filled at once without danger of subsequent pain or inflammation.
- ☐ It is used under any filling, regardless of whether the pulp is exposed or not, as a prevention.
- ☐ A powerful germicide; it quickly neutralizes the pus-forming bacteria.

Regular size package, \$2.00  
Double size package, \$3.00  
Imported package, \$2.50

From your Dealer or Direct

**Gustav Scharmann,**  
1181 Broadway  
New York City

## ALBORO JELENKO

**A Complete Line of  
Platinum - colored  
Golds, Wires and  
Solders for every  
Dental Purpose.**

You can solder a clasp of ALBORO Cast Clasp to a saddle swaged of ALBORO Plate and the joining will be invisible.

This is one of the practical reasons why you should use ALBORO whenever a platinum-colored metal is indicated—and it is indicated in all anterior crown and bridge-work.

ALBORO Plate and Casting Golds, Shells, Discs, Backing, Wire and Solders are made to be used together. Their fine platinum color not only blends with the teeth, making the restoration inconspicuous, but the color is the same in each product. They match each other! And Alboro Plate, Discs, Shells and Backing are non-oxidizing. They contain no base metals.

|                                  |        |
|----------------------------------|--------|
| ALBORO Plate, Discs and Backing— |        |
| per dwt.                         | \$1.90 |
| ALBORO Shells—per dwt.           | 2.00   |
| ALBORO Cast Inlay—per dwt.       | 2.50   |
| ALBORO Cast Clasp—per dwt.       | 2.50   |
| ALBORO Wire—per dwt.             | 2.15   |
| ALBORO Solder—High Fusing—per    |        |
| dwt.                             | 1.35   |
| ALBORO Solder—Low Fusing—per     |        |
| dwt.                             | 1.25   |

**Sold by better dealers  
everywhere**

*Literature on request.*

**J.F. JELENKO & Co.**  
136 West 52nd. St. New York, U.S.A.



Recommending a Daily Use of

# Sodiphene

TRADE MARK REGISTERED

*"First Aid for the Family"*

More than an Antiseptic—a Germicide

Because of the generous acceptance and use of Sodiphene by the Dental Profession, the Sodiphene Company believes that dentists appreciate the value of this antiseptic and germicide for use by their patients as a daily mouthwash and gargle in addition to specific uses in conjunction with professional treatment. Because it is an efficient germicide, Sodiphene is not only effective for the treatment of sore throat and tonsilitis but proves a safeguard against dangerous winter contagions which enter through the mouth and throat.

If you have not given Sodiphene a thorough trial, send for a liberal professional package. Address—

THE SODIPHENE COMPANY

928 Central Street

Kansas City, Missouri

*In  
preparing  
patients—*

Oleoseptine Liquid is a great aid in preparing patients, since, in addition to its antiseptic action, it possesses a pleasing, mild, local anesthetic action.

Just spray mouth and throat with it, full strength; the patient will be quick to sense the delightful effect.

This characteristic of Oleoseptine makes it particularly useful in extraction cases.

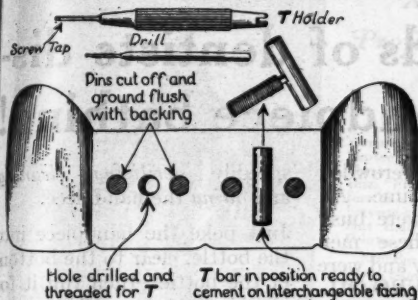


Oleoseptine is the oral antiseptic which does not inhibit salivary flow nor act upon the enzyme ptyalin, the starch-digestive principle of saliva. Be sure to mention your druggist in requesting testing package. The Foster Laboratory, 95 Roseville Ave., Newark, N. J.

# OLEOSEPTINE



## Repairing Broken Bridges Made Easy



The Jackson Bridge Repair Outfit is the most practical device for repairing broken pin facings and affords a labor-saving method which every dentist may successfully employ.

Write to-day for leaflet giving full description and directions.

MIZZY, Inc., Manufacturers, 1 Union Square, N. Y.

## NEW YORK SCHOOL OF MECHANICAL DENTISTRY

Penn Arcade, 147 West 33rd Street, N. Y. City, easily reached from everywhere. Practical and individual training, day or evening, easy payments, intensive course, if desired, write for Bulletin E.

FOUNDED BY DENTISTS FOR THE TRAINING OF MECHANICAL DENTISTS

## Find out about the KLETT

The Klett "Novo-Syringe" can be sterilized by boiling, without taking it apart. Piston and plug are made of Novo-Rock, ideal because it has less expansion than glass. A ball-joint connection reduces leakage and breakage to a minimum. No wrenches are required. The Klett is built to outlast any other construction and keeps its accuracy. Be sure to get details; use coupon.

Price \$7.50

**You can  
BOIL it!**

Klett Mfg. Company,  
202 E. 46th St., New York.  
Please send me all data.

Dr. ....

Address .....



## At Cleveland

# Hundreds of dentists discover handpiece bathing!

**O**UR booth was crowded most of the time. All our pencils were busy writing orders. These men saw the point quickly and were eager to get STERO-OIL. They found that it isn't just another brand of oil. They discovered that STERO-OIL provides a bath for handpieces,

speedily sterilizing, cleaning and oiling the handpiece.

Just poke the handpiece into the bottle, clear to the bottom of the bottle—then run it for a minute or two. Now wipe it dry—and the handpiece is clean, sterile, lubricated and ready for use.

# STERO-OIL

prevents handpieces or bur chucks from sticking or "freezing." It prevents the embarrassment of having oil run out of the handpiece and blacken the patient's lip. It keeps handpieces from wearing out quickly—cuts repair and replacement costs. It gives the handpiece a pleasant odor. And then there's the sanitary

feature: you'll never have to worry about saliva working into the gears and being transmitted to the next patient.

Reach for your pencil; fill out the coupon; send it now. You pay later, on a money-back basis. You won't want your money back; you'll want more STERO-OIL!

---

STERO-OIL CO., 447 Spreckels Building, San Diego, California:

- ☐ Please send one bottle of STERO-OIL—upon receipt of which I will return 75c in the mailing tube in which it comes, or
- ☐ Charge through my dealer

Dealer's name.....

Dealer's address.....

My name.....

My address.....

I will give STERO-OIL a 30-day trial and return for full refund if not satisfactory.

---





## Xmas Gifts for Professional Friends



"How seldom we see good pictures in reception rooms," said Dr. McGee in September "Oral Hygiene." He says there are probably two reasons for this: "First, because no one has put before us a proper selection, and second, because good pictures are so expensive." But that was before he saw Munder Prints.

Munder Prints, on Japanese hand-made paper, signed by Norman T. A. Munder, make ideal Christmas gifts for professional friends. There are subjects priced as low as \$1.50—larger prints cost relatively more.

We can arrange for appropriate framing. Write at once in order that we may deliver in time for Christmas.

**Norman T. A. Munder & Co.**  
*Art Publishers*

Dept. D. Baltimore, Maryland



## SOLOS

### Moisture-proof Paper Receptacle *for surgical waste*

A splendid device which is in use in many operating rooms. It is economical, sanitary, easily adjusted. Bags measure  $10\frac{1}{4}$  inches by 20 inches and fit either frame.

When the bag is full, simply remove and destroy it. This eliminates washing of soiled pails.

*Enquire of your dealer or write to*  
**SOLOS SANITARY CO.**

**245 East 23rd Street, New York**



# The Samples of Gibb's Nuremedy

we will be glad to send upon request will convince you that it is the quickest, surest and safest method of warding off post-operative pain.

It contains no acetanilid, opiate or habit-form drugs.

*Sold by dealers or direct.*

|                |   |   |        |
|----------------|---|---|--------|
| 100 Tablets,   | - | - | \$ .75 |
| 500 Tablets,   | - | - | 2.90   |
| 1,000 Tablets, | - | - | 4.75   |

**CENTRAL LABORATORIES CO.**

4210 OLIVE STREET, ST. LOUIS, MO.



**T**HIS big, roomy coupon brings your free testing sample of **DENTISTS' FRIEND**—and you'll say it is a real friend when you find how it cleans and polishes teeth, plates, crowns and instruments—without scratching, because it's harmless; it contains no acid.

Dr. ....

Address .....

Dealer .....

The Gilcrest Company, 2052 Market St., San Francisco, Calif. Thru your dealer or direct on receipt of price, 75c

*The sample is free though.*

## Write for literature on the **NEW KIDDER** Sectional Impression **TRAYS**

for full mouth impressions or ask your dealer for these new trays.

6 Trays in Complete Set, \$1.50 each

W. N. KIDDER

433 Westminster St. Providence, R. I.

### ADVANTAGES of AUTO EMBLEM for DENTISTS

1. Recognition of brother dentists and assistance in case of need when traveling. 2. Special parking privileges and police courtesies. 3. Ethical means of letting your neighbor know who you are. 4. Endorsed by leading dentists

and sold throughout U. S. Dental Emblem Co. P. O. Box 455 New Haven, Conn. Price \$3.00. Order direct or through dealer.





## An ideal antacid is contained in Squibb's Dental Cream

THE greatest enemy of the teeth is the acid which forms in the mouth. For the protection of the teeth, it is necessary to supply an antacid for which the acid has an affinity greater than it possesses for the lime salts of the tooth structure. The affinity of acids for the hydroxides is greater than for any other substance. Consequently, it is to the hydroxides we naturally look for a neutralizing agent.

The hydroxide which dentists consider safest to use in the mouth is magnesium hydroxide, and magnesium hydroxide (milk of magnesia) is equal to the caustic alkalis in acid-neutralizing power, but being non-caustic, perfectly bland, and free from distinct alkaline reaction, it is an ideal protective antacid for oral use, and because it is almost insoluble, its effect is

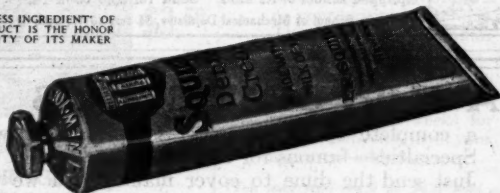
lasting and not transient, as is the case with the soluble neutralizing agents.

Squibb's Milk of Magnesia is a highly purified magnesium hydroxide in suspension. Squibb's Dental Cream contains Squibb's Milk of Magnesia in sufficient quantity to neutralize many times the amount of acid which will form in the mouth. It has a high cleansing value, is pleasant to the taste, and leaves a neutralizing and protective deposit in the sulci, the interdental spaces and under the free margins of the gums, that is a safeguard to both teeth and gums.

Squibb's Dental Cream is a professional product, safe and effective for the use of children as well as in pyorrhea and for all general purposes for which a dentifrice is needed.

**E. R. SQUIBB & SONS, NEW YORK**  
MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858.

THE "PRICELESS INGREDIENT" OF  
EVERY PRODUCT IS THE HONOR  
AND INTEGRITY OF ITS MAKER



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E. R. Squibb & Sons.



## AMALGAM that stays white

The word "white" in "Sterion White Alloy" means something. Sterion White *stays white* longer than any other amalgam does. Think what this means!

This is one of the reasons why Sterion White has been in use continually for more than a quarter century.

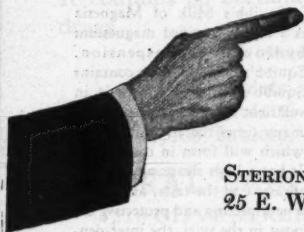
It is the original formula of Dr. A. C. Hewett.

It's silver content is 67%.

It's unlike any other alloy so there is no real substitute for it.

Price, one ounce, \$2.00; five ounces, \$8.50; ten ounces, \$16.00.

From your dealer—or direct.



STERION WHITE ALLOY COMPANY  
25 E. Washington St., Chicago, Ill.  
(Inc. 1900)

## LEARN MECHANICAL DENTISTRY

Practical instruction—day or evening. Three to nine months' course. No charge for equipment. Postgraduate course for Dentists and Practicing Dental Mechanics.

Established over 30 years. Write Dept. 10-H for 36 page catalog.

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### WANTED—Capable Mechanical Dentists

The demand is greater than the supply for REAL mechanical dentists. The high standard of McCarrie instruction is evidenced by the success of its graduates. Individual expert instruction in every branch of prosthetics at reasonable terms. The largest and best equipped school of its kind. Send for free book 14.

McCarrie School of Mechanical Dentistry, 34 and 36 W. Lake St., Chicago, Ill.

## A THIN DIME BRINGS

a complete set of samples—samples of Brown's Specialties—famous for more than 33 years.

Just send the dime to cover mailing and we will mail you a complete set of samples right away, including Brown's Cleaning Fluid. Stamps will do.

THE WHEELER-BROWN SPECIALTY CO., INC.

472 Main Street, Fitchburg, Mass.





Get the Free Sample—then you will know why nearly a quarter million jars have

been used by the profession for abscessed teeth. J. A. Sprague & Co., Columbus, Ohio.

## A Good Sign

MADE OF CAST BRONZE OR ALUMINUM COMMANDS RESPECT AND ADMIRATION. ASK YOUR DEALER OR

**BENKO BROS.**

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*A Benko Sign is never replaced*

### KEITH'S LATEST HIGHLY IMPROVED DENTIST'S ARTICULATING PAPER

BLUE  
S. H. REYNOLDS SONS COMPANY, 100 Boylston Street  
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SOLE SELLING AGENTS



It has finger protectors and is extremely sensitive.

*Sample on request.*

S. H. Reynolds Sons Co., 100 Boylston St., Boston, Mass.

Save Time and Improve  
Your Casting

with the

**STARK  
WAX ELIMINATOR**

Only



**\$3.50**

*Money Refunded if not Satisfactory*

**PROGRESS  
DENTAL MFG. CO.**

1074 Eastern Parkway  
Brooklyn, N. Y.

*Order Directly or Through Dealer*



**"Open Wider Please!"**

NO NEED to tell your patients that, if they have seen the latest copy of **LIFE** on your waiting room table. They'll come in grinning from ear to ear.

A year's subscription is \$5.00 but you can try our treatment for 20 weeks for \$2.00. Clip and mail your name and address to us.

*(You may send check or we'll send a bill)*

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Address \_\_\_\_\_

**LIFE 598 Madison Avenue, New York**



## Just What You Need

### Dr. Allens Lightning Quick Plate Repair

Replaces a tooth broken from a plate in ten minutes, while the patient waits, without vulcanizing, simple and easy to work.

Think what this means to you to be able to help your patient out of an embarrassing situation. Worth many times the cost.

Order a package from your dealer today and be ready for the next emergency.

Full instructions in each package, which contains sufficient material for 30 to 40 repairs. Sent direct on receipt of \$3.00.

**The David Perry Co.**

622 Nicollet Ave., Minneapolis, Minn.

## Quick!

Less than 2 minutes to destroy bacteria on instruments and dressings. Superheated steam is quick and certain. That's why leading colleges and clinics prefer



Auto-Clavette  
Type A. W. P.

### PENTZ STERILIZERS

\$35.00 up. Get the booklet!

The SANTISEPTIC MFG. CO., Inc., 11 Beach Street, Stapleton, Staten Island, N. Y.

Dr. \_\_\_\_\_, of Tulsa, Okla., was so delighted with inlay results due to GRAY JACKET that he wrote several friends suggesting they write us for free samples. *How about you?* Just send your card. Pieper Dental Mfg. Co., 201 Garden City Bank, San Jose, Cal.



## MU-COL—the oral antiseptic in powder form

**We want to send you a testing package sufficient for 12 pints of solution.**

MU-COL is the oral antiseptic in powder form—instantly soluble in warm water; the cost of solutions is trifling. Even the free testing package which the coupon brings is enough for 12 pints of solution.

Physicians have used MU-COL for years. A few dentists, learning of MU-COL from physician friends, induced us to offer it to the dental profession. They discovered its quick healing and sedative action following extractions—and that it aids in controlling incipient pyorrhea. So that you may duplicate the experience of the many dentists now using and prescribing MU-COL, we print the coupon below.

The Mu-col Company, Tupper & Edwin Place, Buffalo, N. Y.

Nov.

Please send free package of Mu-Col to

Dr. \_\_\_\_\_

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City \_\_\_\_\_

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MU-COL Cleanses, Purifies and Heals



# EVERY POUND GUARANTEED



The care, the skill, the experience that resulted in producing Corning Dental Rubbers of tensile strength, elasticity, easy packing, has stood the test of years.

## Blended Pink

—does not shrink  
Lifelike tint  
Superior strength  
Packs easily  
Trial box  $\frac{1}{4}$  lb. \$2.50

## Golden Plate

Wonderful color  
Vulcanizes without pits or porosity  
\$4.00 per pound  
Sample box  $\frac{1}{4}$  lb. \$1.00

### VENEERS

- ☐ Blended Pink
- ☐ Spl. Lt. Pink
- ☐ Light Pink
- ☐ Deep Pink
- ☐ White

### BASE PLATES

- ☐ Light Red
- ☐ Medium Red
- ☐ Dark Red (Brown)
- ☐ Maroon
- ☐ Golden Plate
- ☐ Dark Natural
- ☐ Black
- ☐ Red Weighted
- ☐ Black Weighted

This brings either the free sample or the  $\frac{1}{4}$ -lb. box.  
Free sample  
 $\frac{1}{4}$ -lb. box at \$2.50  
 $\frac{1}{4}$ -lb. box at \$1.00  
Dr. \_\_\_\_\_  
City & State \_\_\_\_\_  
Dealer \_\_\_\_\_

# CORNING RUBBER CO., Inc.

174 Duffield Street, Brooklyn, N. Y.



# Decoater Tooth Brushes

Made by the makers of Pepsodent

Made to Dental Specifications

Leading dental authorities, some time ago, worked out specifications for the right type of tooth brush. We believe that most dentists agree with them.

The Decoater was made to those specifications, for in shape, separations, rounded tufts, trim, length of bristles, etc., it conforms with those requirements.

The Decoater is also a quality brush, American made and well made.

Each tuft of bristles is separate. So whenever a shorter brush is desired, one may trim off one or two back rows.

## Pocket Style Also

The Decoater comes in two styles—Home and Pocket Style. The Pocket Style is for children at school, for men in business, for people away from home.

The metal case is permanent. The brushes, as they wear out, are replaced by refills.

The Decoater is now supplied by druggists in general. Home Style, 50c. Pocket Style, \$1. Refills for Pocket Style, 50c.

We will send a sample of the Home Style to any dentist on request. Or the Pocket Style for 50c.

Home Style



Pocket style folds into this ventilated metal case. Brushes replaced by refills.



Pocket Style

THE PEPSODENT COMPANY

Decoater Brush Dept.

1104 So. Wabash Ave., Chicago



**Another  
Burlew  
Baby**



# Burlew Sulci Discs

**MIDGET SIZE**

**PATENTED**

**SUGGESTED BY DR. J.M. PRIME**

Just what you've wanted! A tiny little disc with a knife edge to smooth and polish the sulci of amalgam fillings and gold inlays.

And they're great to clean teeth—in places too small or too remote for the larger Burlews.

Like other Burlews, these Midgets have all the polishing ingredients in them. But they're made of a firmer material to hold the knife edge.

For best results use them with a small-headed mandrel such as we supply.

Literature if you want it but better buy a box.

\$1.00 a box of 25 discs.

With special straight and right angle mandrels

\$1.35 a box of 25 discs.

**COMPARATIVE  
BURLEW  
SULCI DIS**



**BURLEW CLEAN  
& POLISHING I**



**FROM BETTER DEALERS EVERYWHERE**



**J.F. JELENKO & Co.**

136 West 52nd. St. New York, U.S.A.



# Germs

They are everywhere!

You can't prevent them from entering the Oral Cavity.

But you can prevent their harmful infectious action upon injured tissues.

A few tablets of

# Sep-tox

given to each patient for home use after an extraction or Dental operation, will not only prevent infection but will materially assist in restoring the gums to a healthy and normal condition.

SEP-TOX is an instantly soluble antiseptic tablet, especially prepared for Dental use. It is more powerful than phenol, yet it is strictly non-poisonous and non-caustic. It is mildly astringent. It does not coagulate albumen. It stimulates the tissue and promotes rapid healing. Unlike Dakin's solution and other chlorine preparations, it is not objectionable to taste or smell.

*Many Dentists who formerly advocated the use of warm salt water after extractions, now realize the superior advantage and protection afforded in the use of SEP-TOX.*

## To the Dental Profession

|             |     |        |
|-------------|-----|--------|
| 100 SEP-TOX | - - | \$ .80 |
| 500 " "     | - - | 3.00   |
| 1000 " "    | - - | 5.10   |
| 100 ORODYNE | -   | 1.20   |
| 500 " "     | -   | 4.00   |
| 1000 " "    | -   | 7.00   |

From your Dealer or direct from  
the Laboratories of  
WINKWORTH & CO.







## Pain

There are many medicinal agents that will subdue pain. Some act more rapidly than others; some with a greater degree of safety.

In Dental Use, the factors of most vital consideration are *safety* and *ease of toleration*.

After an extraction, you naturally desire to protect your patient against post-pain. You are, as a rule, expected to do so. But a hard extraction or operation often tends to upset the physical condition of the patient, making him hypersensitive to medication. Thus it behooves you to be sure that the medicament which you select, will prove unquestionably safe and *easily tolerated*.

The use of

# Orodyne

gives you this assurance.

ORODYNE is a balanced compound including acetphenetidin, caffeine and sodium bicarbonate. The formula is obviously harmless. It is used by Physicians the world over. Extended tests have proven its remarkable ability to eliminate post-operative pain without irritating the stomach or producing any harmful reactions. A trial bottle of ORODYNE awaits your request.

### Free Introductory Offer

Whether you perform one extraction a day or twenty, you will appreciate the value of our special service.

Let us send you free of charge a clinical supply of SEP-TOX and ORODYNE tablets, together with complete information regarding this special service.

Name.....

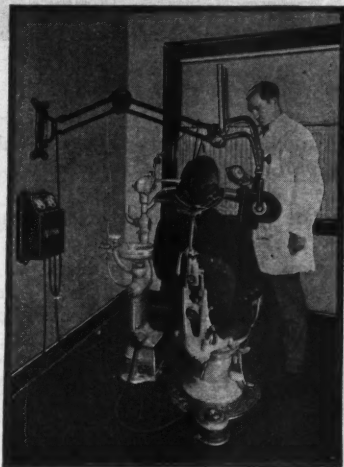
Address.....

**WINKWORTH & COMPANY**  
Pharmaceuticals

1747 Cass Avenue—Detroit, Michigan







## A Mark of Progress

### The Installation of a Model "CDX" Victor Dental X-Ray Apparatus

**100% Electrically Safe and Shock Proof**—no exposed high tension wiring. All low and high tension circuits "grounded." All contacts and connections under cover.

**Exceptionally Compact Design.** Occupies only slightly more space than a standard dental engine installation.

**The Same Range of Service** as is obtainable from any cabinet type of X-Ray apparatus employing the Right Angle Coolidge Tube.

### Conserves Space, Time and Worry

Two years have been spent in checking durability and practicability in order to insure 100% perfection in design and satisfaction to the customer.

*Descriptive bulletin on request*

**VICTOR X-RAY CORPORATION**

Dental Department

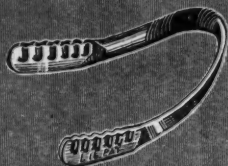
236 S. Robey St., Chicago, Ill.





# The Improved Jelenko Lingual Bar

PATENTED



*lies flat  
against the tissues*

In addition to being heavier and sturdier, the new Improved Jelenko Ready-Made Lingual Bar is flat along the anterior surface which lies against the gum.

This, plus the distinctive angular bevel, that upward curve of the anterior part to prevent impinging on the tissues and to conform to the natural arch, makes the new Improved Jelenko Lingual Bar the most comfortable bar a patient can wear and the most easily adapted bar you can use.

***And the price remains unchanged!***

**SOLD BY BETTER DEALERS EVERYWHERE**

Literature on Request

## IMPROVED JELENKO READY-MADE LINGUAL BARS

18 Kt. Cased Gold (1/5 part 18 Kt. gold) Long, Medium, Short  
\$1.50 each. \$15.00 a dozen

16 Kt. Solid Gold—Long \$2.50—Medium \$2.25—Short \$2.00

16 Kt. Extra Heavy Solid Gold—Long \$2.75—Medium \$2.50  
Short \$2.25

18 Kt. Solid Gold—Long \$4.00—Medium \$3.75—Short \$3.50

**J.F. JELENKO & Co.**  
136 West 52nd. St. New York, U.S.A.



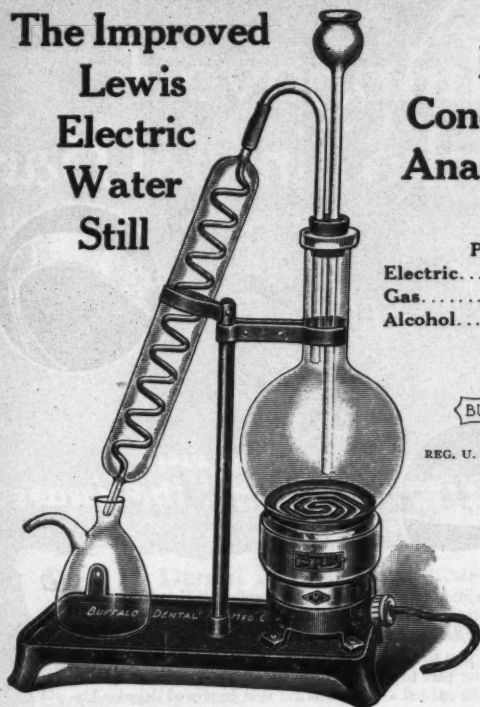


# The Improved Lewis Electric Water Still

## For Conductive Anaesthesia

### PRICES

|               |         |
|---------------|---------|
| Electric..... | \$35.00 |
| Gas.....      | \$26.00 |
| Alcohol.....  | \$25.00 |



REG. U. S. PATENT OFFICE

If you are doing work in the conductive anesthesia field, you realize the necessity of a ready supply of freshly distilled water; the only kind that can be injected with safety into the human system.

The Lewis Electric Water Still will produce chemically pure distilled water quickly and conveniently, and in sufficient quantities for all ordinary dental purposes.

It is compact in form, small in size, and fitted with a guaranteed heating element of the open coil variety which has been in use commercially for a number of years.

The base is 10½" by 7" in size, and the entire outfit measures about 14" in height. It will distill 150 CC. of water in 25 to 30 minutes operating under normal conditions and distillation may be continued indefinitely if larger quantities are desired.

Also supplied with gas or alcohol heaters.

### BUFFALO DENTAL MFG. CO.

Lock Box 979

Buffalo, N. Y., U. S. A.

*Have you tried Buffalo Articulating Paper?*

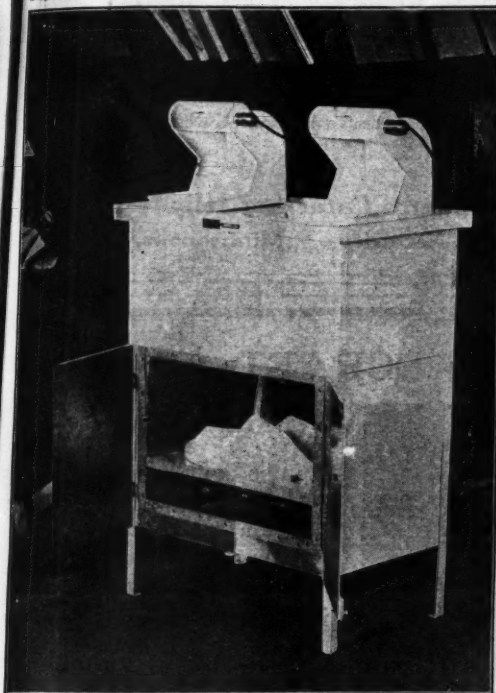


# That Dusty Electric Polishing Motor can be made Dustless with LEIMAN BROS.

The constant inhalation of dust soon impregnates the lungs with impurities. This eventually means sickness and possibly death. No argument is necessary in order to impress on the dental trade and profession that this condition should not be allowed to exist. Many have the opinion that a little grinding or polishing daily does not justify their going to any expense in protective measures—nothing could be further wrong because we all know that this little amount of dust daily is bad—and just as effective as the little drop of water constantly at work wearing away a surface.

Some dust is laden with valuable metallic particles which makes it doubly important that it be collected. It means a saving of actual money—It now blows away out of the window or is carried away on the clothes. A very small amount of dust of platinum, gold, etc. makes a dollar.

## POLISHING DUST COLLECTOR 18x28" Floor Space White Enameled.



The machine is substantially built and utilizes our time-tried system of dust separation—The cloth bag that catches the dust is self emptying—When the machine stops the bag collapses, dropping the dirt into the lower compartment.

You simply stand your present Electric Polishing Motor on the table top between the two adjustable suction hoods.

Operates from any electric light socket—suction hoods are lighted—hoods have removable wet pumice pans

### A SMOOTH RUNNING SILENT OUTFIT.

Use your own polishing and grinding motor and collect the dust.

Specify the kind of current you use—see the electric light company.

Patented

### GET THIS DUST COLLECTOR

because it can actually make money for you by saving the gold particles that you are now losing. Get it because it will prevent your lungs from becoming clogged with disease, breeding dirt and dust. Get it because it will make your laboratory cleaner, fresher and more attractive. Ask for Catalog.

**LEIMAN BROS.** 60-62 LISPENARD ST., NEW YORK  
near Broadway & Canal St.

Makers of good machinery for 35 years.



# HEAD—NOSE—THROAT

30 years  
ago

**KONDON'S**  
CATARRHAL JELLY

began  
doing good

For Catarrh—Influenza—Cold in Head—Nasal Catarrh—Stopped up Nose—Bad Breath—Inflammation of skin and tissue. Thousands of Dentists, Physicians and Nurses recommend KONDON'S.

## FREE OFFER

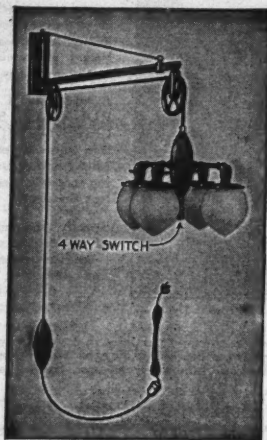
Any Dentist—Nurse or Doctor who will write us on their own stationery will receive FREE a tube of KONDON'S CATARRHAL JELLY for own personal use, and samples for patients and friends. KONDON'S is sold by the entire drug trade.

**Kondon's Catarrhal Jelly**

is a Household Necessity

Minneapolis, Minn.

## The BRADCRAFT LIGHT



We are glad to announce our improved light at a very attractive price.

Ask your dealer about it or write us.

Sold by all good dealers.

**T. F. O'NEILL & CO.**

119 West Park Avenue  
New Haven, Conn.



## Save Money

Why spend money for old-style head-rest napkins?

—Spend more money to have them laundered

—and still more money to replace them when worn out.

Phone your dealer to send you a box of

### Hygienic Dental Head-Rest Pads



U. S. Pat. Nos. 775478 and 845822

No. 2 pads are made of white crepe paper.

No. 4 pads are made of impervious paper.

Two pair of either style (enough for 200 sittings) in a box and the price is only \$1.50.

GUSTAV SCHARMANN

1181 Broadway

New York

## Professor Gysi sought a formula

He knew existing methods of pulp treatment to be illogical. But what was the alternative? That was in 1902. Following research Prof. Gysi presented his views in a paper before the Swiss Odontological Society. He concluded with the promise that he would report later after clinically testing several tentative formulae.

In 1922—20 years later—he was ready to reveal the formula which had proved most effective during the 20-year test, which embraced wide use of the preparation throughout Europe and included histological, bacteriological and chemical tests.

### "Fixation" and Permanent Sterilization"

—a free booklet—goes into details and presents the formula. Ask for it, please.

Prof. Gysi's TRIO PASTE is the resulting medicament; more than 3500 jars have been sold since its introduction in March 1922. It is unequaled for putrescent canals; it is X-Ray visible.



Price, \$2.50 per jar, sufficient for 150 cases

Through your dealer or direct

**O. T. WAYNE**

222 S. 19th St., Philadelphia

Distributor also of Prof. Gysi's TRICLINE Cobalt (Metallic Arsenic) Devitalizing Fiber.

Please send the free booklet by Dr. Gysi.

Dr. ....

Address .....



## Synergism and Prolonged Anesthesia

are current topics, when earnest men of both the Medical and Dental Professions confer.

In study clubs and special research classes the entire time is often devoted to the subject of ideal anesthesia and agents for producing it.

### SOMNOFORM

is a perfect relaxing agent, eliminating all unpleasant post-operative effects—a great point in its favor.



### The Value of Somnoform

in prolonged anesthesia is being more fully developed every day by anesthetic specialists. In both professions, principally because after functioning, SOMNOFORM passes off through the lungs and respiratory tract and is not absorbed.

A group of Anesthetic Specialists recently gathered in Cincinnati, for a special course in Research Work. SOMNOFORM was thoroughly investigated. The following text from letter received shows plainly the result:

"We were able to study the prolonged administration of SOMNOFORM with the exhaustion of carbon dioxide and the use of oxygen, and it was found quite easy to administer a surgical anesthesia of one and one-half hours without much apparent depression and very smooth maintenance. The device used practically duplicates the Romberger principle, and I am sure you are on the right track in manufacturing it for synergism and also for prolonged anesthesia with SOMNOFORM."

Please send me reprint and Technic Chart.

Name .....

Address .....

Dealer .....

STRATFORD · COOKSON  
COMPANY

42nd & Ludlow Streets  
Philadelphia, Pa.



# An Exceptional Antiseptic

**T**HE advantages of Zonite are readily appreciated by every dental surgeon. This stabilized and concentrated form of the Carrel-Dakin Solution removes all difficulty of preparation and all lack of uniformity.

Zonite is more than six times as effective as Dakin's in the presence of organic matter and more than three times as effective at the same hypochlorite strength. Zonite has greater

penetration than Dakin's, and less coagulating and haemolytic action. Also, Zonite has less irritating properties than Dakin's and permits a far greater regrowth of tissue and reconstruction of animal cells.

Zonite maintains its full hypochlorite strength over a period of five months. Over a period of two years its loss ( $\frac{1}{2}$  of 1%) is negligible. Send for complete laboratory report and a bottle of Zonite for testing purpose.

## Determination of the relative germicidal properties of Zonite and Dakin's in the presence of saliva

In the test charted below the exact conditions of organic matter in the human mouth were reproduced and are entirely comparable so far as organic materials are concerned to the fluids present on the other mucous membrane surfaces of the body. Please note that a 1:100 dilution of Zonite containing 0.09 gram per liter

of chlorine produced complete sterility in five minutes while it required a 1:10 dilution of Dakin's containing 0.468 gram per liter of chlorine to accomplish the same result. Compare this test with the one above and observe the diminishing power of Dakin's when approaching the conditions encountered in actual use.

| Dilution                             | Number of Surviving Organisms at<br>End of |           |           |           | Available Chlorine<br>in Dilution |
|--------------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------------------------------|
|                                      | 5 Min.                                     | 15 Min.   | 30 Min.   | 60 Min.   |                                   |
| <b>ZONITE</b>                        |                                            |           |           |           | 9.03 grams per liter              |
| 1:10.....                            | 000                                        | 000       | 000       | 000       | 0.903 " " "                       |
| 1:20.....                            | 000                                        | 000       | 000       | 000       | 0.451 " " "                       |
| 1:50.....                            | 000                                        | 000       | 000       | 000       | 0.1806 " " "                      |
| 1:100.....                           | 000                                        | 000       | 000       | 000       | 0.0903 " " "                      |
| 1:200.....                           | 5,000                                      | 2,000     | 200       | 000       | 0.0451 " " "                      |
| 1:300.....                           | 35,000                                     | 20,000    | 20,000    | 15,000    | 0.0301 " " "                      |
| 1:400.....                           | 120,000                                    | 60,000    | 50,000    | 45,000    | 0.0225 " " "                      |
| <b>DAKIN'S SOLUTION</b>              |                                            |           |           |           | 4.68 grams per liter              |
| 1:10.....                            | 000                                        | 000       | 000       | 000       | 0.468 " " "                       |
| 1:20.....                            | 98,000                                     | 16,000    | 1,800     | 000       | 0.234 " " "                       |
| 1:50.....                            | 290,000                                    | 110,000   | 61,000    | 9,400     | 0.0936 " " "                      |
| 1:100.....                           | 1,800,000                                  | 620,000   | 100,000   | 14,000    | 0.0468 " " "                      |
| 1:200.....                           | 2,200,000                                  | 1,050,000 | 340,000   | 149,000   | 0.0234 " " "                      |
| 1:300.....                           | 4,000,000                                  | 3,200,000 | 1,200,000 | 1,120,000 | 0.0156 " " "                      |
| <b>CONTROL:</b>                      |                                            |           |           |           |                                   |
| 5 c.c. Saliva + 5 c.c.<br>water..... | 3,900,000                                  | 4,000,000 | 4,600,000 | 4,200,000 |                                   |

**ZONITE PRODUCTS CO.**

342 Madison Ave., New York City





## MYNOL CLEANSER

### Produces a Healthy Skin.

Its antiseptic properties make it thoroughly hygienic, and also prevents any deterioration taking place.

It is delicately perfumed, which disappears in use, leaving a delightful freshness in its place.

This feature will especially appeal to Dentists, and most certainly will find appreciation by Patients.

The Operator's hands cleansed with Mynol Cleanser, will very quickly evidence a smoothness and softness, due to the

pores of the skin being cleared of waste matter, and every cell stimulated with life.

Mynol Cleanser is free from Caustic Alkali, and when regularly used on the Hands, Face, Skin or Hair, will produce such splendid and pleasing results, as to really surprise the most doubting individual.

The use of Mynol Cleanser lays the foundation of life-long skin health.

Every day your skin will grow fresher and clearer. Mynol Cleanser scrupulously cleans the pores of all dirt, oil, and perspiration that naturally clogs the pores. Mynol Cleanser freshens and stimulates, and produces a healthy skin.

2-lb. Can.....1.75

Three 2-lb. Cans.....5.00

Six 2-lb. Cans....9.50

Twelve 2-lb. Cans.....18.00

Sold by all leading Dealers.

*Manufactured by*

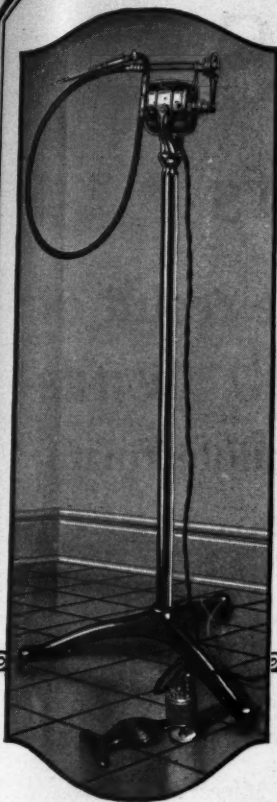
**THE MYNOL CHEMICAL COMPANY**

*Service to Dentists*

Real Estate Trust Bldg.,

Philadelphia, Pa.





## DUMORE Portable Dental Engine

Pedestal Type \$72.50

Table Base Type \$67.50

**D**ESIGNED for work in hospitals and homes, or as an auxiliary unit. Valuable, too, in the laboratory for polishing and similar tasks.

Sturdy and dependable, it is just the tool for emergencies. Your dental supply house can furnish Dumore engines. Write us and we will gladly arrange for an office demonstration of this handy unit.

All DUMORE Dental Engines are equipped with S. S. White No. 7 Hand-piece; Slip-joint and 31 inch Flexible Shaft and

Sheath. To meet various requirements DUMORE Dental Engines are made in two styles—with Table Base and Pedestal Mounting.

Wisconsin Electric Company  
3264 Sixteenth Street, Racine, Wis.



Table Base  
Style

## DUMORE DENTAL ENGINE



# ASH'S products

the result of  
100 years  
manufacturing  
experience

Known the world over for their excellence.

Ash's N/M Tube Teeth  
Ash's Diatoric Teeth 8s, 14s and 28s  
Ash's Repair Facings  
Ash's Long Platinum Pin Facings  
Ash's Hand-Made Forceps and Elevators  
Ash's High Grade Burs  
Ash's Syringes, Mouth Mirrors and Insts.  
Ash's Impression Trays  
Ash's C. A. S. Cement  
Ash's Modelling Composition and Waxes  
Ash's High-Grade Pink Dental Rubbers  
Ash's High-Grade Base Dental Rubbers  
Ash's Solution

CLAUDIUS ASH, SONS & CO., U. S. A., INC.  
LINCOLN BUILDING NEW YORK



# It's easy now

*to clean plates and bridges, preventing sore gums*

The patient with a newly acquired plate or bridge is confronted with a difficult cleaning problem. With indifferent success, he is searching for some ready and efficient means of overcoming the acute feeling of mouth discomfort and uncleanness produced by a denture covered with slimy mucin in which food particles finds secure lodgment.

In addition, the gums and tender oral tissue may become sore, a condition which is apt to be aggravated by the use of strong antiseptics and abrasive pastes and powders.

Mu-Sol-Dent, being a liquid, and the first efficient, harmless mucin solvent discovered, not only makes it easy to

remove the slimy covering from teeth, plates and bridges, but also heals sore gums quickly and effectively. Its high therapeutic value is due in no small measure to the fact that its osmotic pressure is the same as that of saliva, being thus positively non-irritating. Secondly, it cleans by solvent action on the mucin rather than by abrasive action on the enamel and gums, thus eliminating another source of irritation. Thirdly, the teeth and entire mouth is kept cleaner than is possible with friction cleaners, as these cannot be applied as effectively as a liquid to inaccessible surfaces between teeth and other hard-to-reach areas.

*A 3-day test at our expense on any patient you may select, will be a revelation to you. Send for free 12-oz. bottle.*

## Mu-Sol-Dent

*dissolves mucin*

*For free sample*

attach your professional card to this ad and mail to V.B. Corporation, 916 Forbes St., Pittsburgh, Pa., Dept. N-O.





# Relieve Pain and Fear —Doctor

*They are the two greatest problems you have to contend with in your practice. Perhaps more so than you realize.*



Relieve these conditions with that guaranteed product—**TABLETS ORAPAIN (Searle)**. ORAPAIN, is being widely used by the profession to control post-operative pain and to quiet that nervous excitement that is equivalent to fear.

Orapain is so economical to use that dentists are prescribing it freely; the cost per operation is next to nothing.

We want you to know and use ORAPAIN, hence our coupon offer.

ORAPAIN is packaged 100 tablets to a bottle and with each bottle we give you, **FREE**, twenty dispensing envelopes for your convenience. Price per bottle, \$1.00. Order a bottle from your supply house or send coupon to us for sample.

**G. D. SEARLE & CO.**  
4618 Ravenswood Avenue  
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Check, Sign and Mail this Coupon

**G. D. Searle & Co.,**  
4618 Ravenswood Ave.,  
Chicago, Illinois

Send me the following as checked—

- ☐ Bottle of 100 ORAPAIN Tablets  
☐ Free Sample of ORAPAIN Tablets

Name.....

Address.....

City..... State.....

Dealer.....



# Forhan's

## FOR THE GUMS

### *For the Conquest of Pyorrhea*

With the dentists of the United States, Canada and England, we are working in the interests of oral hygiene, for sound, healthy teeth, for gums and bodies uncontaminated by Pyorrhea.

Our two products are compounded for use in the treatment of Pyorrhetic conditions. They are scientific and safe.

Our advertising is a message to the public on the menace of Pyorrhea and what steps should be taken for its prevention.

We speak most frankly now of the odds in favor of Pyorrhea—odds of 4 to 1 against all persons over forty.

It will be a happy day for us when we can say, publicly, that only 3 out of every 5, or 2 out of every 5, are endangered instead of 4 out of every 5 as now.

In other words, we are working with you to bring down the odds, and in all our national advertising, we are advising the public to visit dentists at least twice a year for tooth and gum inspection.

Forhan's Pyorrhea Astringent is compounded to the formula of Dr. R. J. Forhan, and sold only to dentists to insure its restriction to professional use.

*Formula R. J. Forhan, D. D. S.*

## Forhan Company

New York N.Y.

FORHAN'S, LTD.  
MONTREAL



# UNIVERSITY

## The ORIGINAL Dr. Hartzell Brush

Scientifically constructed to simplify the more perfect cleaning of teeth—brushes especially designed for treatment of pyorrhea



**No. 2  
Two Row**

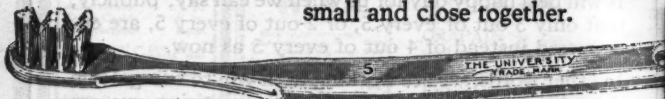
**\$3.25 per dozen. \$36 per gross.**  
For general use on outside surfaces



**No. 7  
One Row**

**\$2.75 per dozen. \$30 per gross.**

Ideal for children and adults where teeth are small and close together.



**No. 5  
Special**

**\$4.50 per dozen. \$48 per gross.**  
Inside lingual surfaces of all teeth—vitally necessary in the perfect care of teeth.



**No. 1  
3 Row**

**\$4.00 per dozen. \$42 per gross.**  
Small adult size for cleaning all outside surfaces—bristles trimmed to allow easy crowding between teeth.  
**Terms 5% Discount—Cash With Order  
Otherwise 2% 10 Days—F. O. B. Chicago**

### JAMES R. IRVIN & CO., Inc

230 South Wells St., Chicago, U.S.A.

*"A Hand-Made, Imported Brush"*



# DENTISEPTOL

**Counter irritant—Pyorrhea astringent  
Germicide**

*The Master of your Therapeutic Cabinet*

Let the old make way for the new. You can dispense with at least 50 per cent of your therapeutic agents by the use of Dentiseptol. It has them all combined in a scientific manner.

Write for the SAMPLE—You be the judge

**The Chemical Products Co., Inc.**

**Memphis, Tennessee**

## They Relieve Pain—

**That's why you need  
Dr. Stempel's  
Suction Cup  
Dental Plasters**

That's why we sell them to the better dentists in the U. S., Canada, Europe, Australia, and Japan.

Counter-irritation, perfectly applied by means of these little medicated suction cups will stop periodontal pains and fully relieve suffering caused by abscesses and ulcerations.

Order a box from  
your dealer today

**STEMPEL  
DENTAL  
SPECIAL-  
TY CO.**

Fort  
Madison,  
Iowa



*Safest - - - - Best*

**Don't say "Anaesthetic"**

*Just say, Dr. Gilmore's*

# EXCEL

No Government blank required.

It has been on the market 28 years and is without an equal. Order it through your dealer.

2 oz. bottle, \$1; 12 oz. bottle, \$5; your dealer will refund your money if you are not satisfied. *Try it* and be convinced of its superiority.

Manufactured by

**Excel Chemical Co.**

Dumont, N. J.





## ORTHODONTIC APPLIANCES

Expansion Arches supplied in four sizes—16, 17, 18 and 20 Gauge.

Adjustable Bands supplied in four styles, as illustrated. Open or Closed pattern.

**Standard for Over 20 Years—  
Ask Your Dealer.**

*Send for our Catalog.*

**THE MEIER DENTAL  
Manufacturing Co.**

3927 Olive Street, St. Louis, Mo.



## SKULLS.

Highest quality with full dentition and fully bleached; Sectioned to show all Sinuses, Middle and Internal Ear, and roots of teeth. This preparation is in great demand. Skulls sectioned in any way desired to order, or just the plain skull with jaws on springs.

### JAWS.

Upper and lower mounted or unmounted. Descriptive Price List on request.

*"Anything in Osteology"*

**Darwin L. Platt, Osteologist**  
17 Main St., East Rochester, N. Y.

Used now by 10,000 Dentists with Satisfaction

**HOLG. --  
Minute Plate Repair**

**PERMANENT**

REQUIRES NO  
VULCANIZING  
ALWAYS  
READY FOR USE



### STRONG AND DURABLE

For replacing one or more teeth on vulcanite plates instantly without re-vulcanizing; a material that lasts the life of the plate; repairs made while patient waits. Used for many years with satisfactory results. No danger of plate being distorted, as is frequently the case when vulcanized.

(enough for 30 to 40 repairs) ..... \$3.00

**FOR SALE AT ALL LEADING DENTAL DEPOTS**

MODERN DENTAL SPECIALTIES CO.

5 So. Wabash Ave., Chicago, Ill.



## Answers to Pepsodent questions

# No. 5—What Does Mild Acid Do?

Pepsodent is mildly acid, to conform to the dominant modern dental opinion.

The acid acts to disintegrate mucin plaque—to curdle or flake it—at all stages of formation. And the right use of Pepsodent forces the acid wherever plaque may cling.

Mild acid also stimulates the salivary flow and reduces its viscosity. It increases the alkalinity of the saliva, also its ptyalin index. And ptyalin is there to digest starch deposits on teeth.

Any alkali reverses these desired effects. Every use of Pepsodent increases the power of these great tooth-protecting agents in the mouth. Constant use does that with regularity.

Mild acid is natural and essential to better tooth protection. One gets it in right diet.

To prove the harmlessness in an overwhelming way, natural teeth have been immersed for four years in Pepsodent mixed with saliva without any ill effects.

An acid reaction is incompatible with soap and chalk.

Absence of soap lubrication makes the polishing agent apparent, but that agent is not severe. It is a blend of calcium phosphate and anhydrous calcium sulphate, finely powdered. These, in their pure state, as we use them, form the ideal polishing agent.

Natural teeth have been brushed with Pepsodent up to 250,000 times and has proved this agent harmless.

Send the coupon for answers to all Pepsodent questions, and a tube for testing at your chair.

**Pepsodent** PAT. OFF.  
REG. U.S.

*The Modern Dentifrice*

THE PEPSODENT COMPANY, 3223 Ludington Bldg., Chicago, Ill. 1228

Please send me, free of charge, one regular 50c size tube of Pepsodent, with literature and formula.

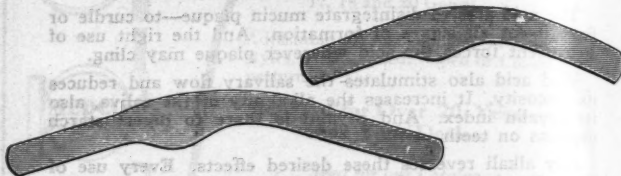
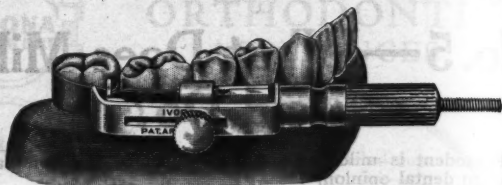
Name.....

Address.....

Enclose card or letterhead



## THE NEW IVORY BAND MATRIX RETAINER NO. 9



This retainer works on the same principle as the Ivory No. 8 Matrix Retainer, the same bands used for both. This new retainer simplifies the adaptation of the band to the retainer.

The band encircles the tooth and is held firm by the angular projecting arm, which abuts against the anterior buccal corner of the tooth. Price with bands, \$4.00; extra bands, per dozen, 40 cents.

ALL DEALERS—Manufactured by  
J. W. IVORY Philadelphia, Pa., U. S. A.



Equip your office with a Justrite Sanitary Waste Pail. Used by thousands of dentists as standard Office equipment. Opens with one foot. Closes automatically. Booklet on Request.

Order from your dealer.

**JUSTRITE MANUFACTURING Co**  
2061 Southport Avenue,  
Chicago, Ill.

## IMPORTANT

For correct Root  
Canal work it is  
essential that you  
have the proper  
instruments

**KERR**  
REG. U. S. PAT. OFF.

Pulp Canal Files  
Pulp Canal Reamers

Made in various  
styles and sizes

AT ALL  
LEADING  
DENTAL  
DEPOTS

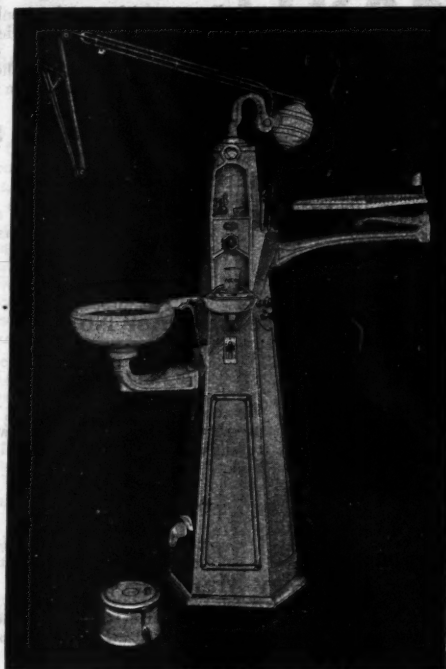
Manufactured  
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**DETROIT DENTAL MFG. CO.**  
Detroit, Mich., U. S. A.



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### Clark Unit Pedestal

Unified Equipment is becoming universally standard. At least ninety-five percent of the 1923 graduates installing new Outfits, included a Unit.

Clark Units with their mechanical and electrical excellence, coupled with artistic design and fine finish are assisting scores of new dentists, scientifically and esthetically.

*Detailed Literature on Request*

**A. C. CLARK & COMPANY**

1035 E. 76th St.

CHICAGO, ILLINOIS



### Torit Investment Heater No. 39



For use with acetylene only. No air pressure required. Heats the investment evenly and quickly. Heater No. 39 is furnished with 5 ft. tubing and connection for auto acetylene tank.

Price \$10.00

### Torit Investment Heater No. 46

Same as No. 39, but for use with city gas. No air pressure required. Heater No. 46 is furnished with 5 ft. tubing for slipping over gas connection.

Price \$10.00

### Torit Bunsen Burner No. 42



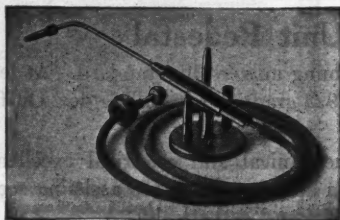
For use with acetylene only. No air pressure required. Furnished with 5 ft. tubing and connection for auto acetylene tank.

Price \$4.00

### Three-Way Manifold No. 52

For connecting Torch No. 36, Investment Heater No. 39, and Bunsen Burner No. 42 to auto acetylene tank so that all three may be used at the same time off the same tank.

Price \$5.50



### Torit Dental Torch No. 36

For use with acetylene only. No air pressure required. Capable of a great variety of gold and silver soldering and brazing. Consists of Torch with 4 different tips, torch and tip stand, 5 feet tubing and connection for auto acetylene tank.

Price as shown, - \$7.50

Order from your Jobber, or

**ST. PAUL WELDING & MFG. CO.**

179 W. Third Street

St Paul, Minn.



## How difficult

was it for you to compile your income tax report?

How many dollars did you pay in excess of the proper tax simply because you could not figure, from your books, all the deductions to which you are entitled?

Perhaps you have an elaborate bookkeeping system and have still been unable to get these vital figures—this is the trouble with elaborate systems, they sometimes make you serve *them*, rather than serving you!

If you have been through this, you will welcome the

### DOCTORS' DOLLAR SUMMARY

It is the multi-column, loose-leaf book—a single book—that accounts in a simple way, for every penny of every dollar that you take in or pay out.

It is so simple that your office assistant can take care of every item of it—and, at the end of the year, income tax figures can be taken off at once without further additions, subtractions or distribution being made.

The editor of ORAL HYGIENE, himself, tells us that this is exactly what he has been looking for and he has installed our system to replace elaborate, cumbersome systems that did not give him the vital figures so readily as ours does.

Price, 100 leaf size "8½ x 11" \$10.00 (enough for more than a year, 5400 lines) C. O. D. ten days' examination and if book does not answer your purpose return same and your money will be refunded. Refills, 100 leaves \$6.50, all over 100 cents each. A system complete for simplicity, compactness and economy.

It is almost impossible to see a dentist personally to sell something, so I send this for 10 days' examination, which I feel you must see in order to appreciate.

Start now or any time during year.

**G. A. Ostermeier**

New London

Wisconsin

Mention your dealer.

Dealers—Write for terms

# IPANA TOOTH PASTE

Heals Bleeding  
Gums

*"I will recommend this  
tooth paste exclusively"*

The above quotation is from a letter from one of your brother dentists.

He says this because he has tested Ipana and knows that it contains no grit, is deodorizing, hemostatic and stimulating in its action and safely performs the antiseptic and cleansing functions vital to a dentifrice.

*You and your patients  
should know and  
use IPANA*

A professional sample  
awaits your card.

**BRISTOL-  
MYERS CO.**

42 Rector St.  
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Makers of  
Sal Hepatica







The comparative values of Harvard chairs are not measured by Harvard prices. The material in Harvard chairs, brass, bronze, machine steel and malleable iron, contribute the most **EXPENSIVE** material in any corresponding structure, but this larger cost of material is more than counterbalanced by the Harvard organization which dates back **THIRTY-SIX** years and must be measured by that many years of efficiency and experience which spell success in the highest measure.

The **BEST** goods and most **ADVANTAGEOUS PRICES** so commend the goods as to cut down sales expenses, the efficient and experienced organization keep down overhead expenses and experienced workmen and labor saving machines do more accurate work at a tremendous saving of labor, and under present conditions, cut costs to the minimum, all of which enable unsurpassed quality of products and satisfactory profits.

Our heavy and increased business has proven our claim (disputed by others), that a high grade, efficient, beautiful chair, can be made at a reasonable price.

Ask for special folder.

**THE HARVARD COMPANY**  
**CANTON, OHIO.**



*Keep your accounts so they can be collected*

## The CHANDLER

### Dental Accounting System

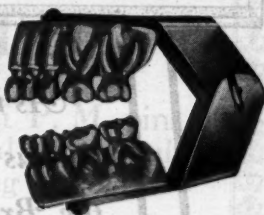
minutely records exact work done  
time consumed; patient's balance; all  
collections; all expenses; summary  
gives complete income tax data; pro-  
phylactic notices. \$12.50 to \$22.50.  
Ask your dealer; write for literature.

H. M. CHANDLER, 200 Fifth Ave., New York, U.S.A.

Write  
For  
Data

## Better Than A Movie

With a **TYPODONT** in your hand you can  
better explain the operation you are about  
to perform than if it were possible for you  
to show a moving picture of the thing.  
And you know how frequently you are  
called upon to make such explanations.  
This is the No. 3 showing the deciduous teeth.  
There are two other forms.  
Ask your dealer to show you all three.



Lee S. Smith & Son Mfg. Co.  
Pittsburgh, U. S. A.

## "The Green Special Flexible Hypodermic Needle"

None genuine without  
the Log Trade Mark



Price  
\$2.00 per dozen

The obvious fine point and flexibility precludes the possibility of pain when  
injecting, while with the ordinary hypodermic needle the coarseness of point  
and rigidity causes a tearing and dragging sensation, which is painful and  
frightens the patient. With the **Green Special** you eliminate the above  
disagreeable features. **Once used Always used.**

## He Who Serves Best Profits Most

You get out of your practice in proportion to what you put into it.  
The **Green Special Flexible Needle** is the only humane hypodermic needle on the  
market. **Never** fails to win the everlasting gratitude of your patients.  
We always have the genuine and the imitations with us. Beware of the unscrup-  
ulous dealer who claims to have a substitute just as good. None genuine with-  
out the **LOG** trade mark. Either screw or luer type.

## The Green Special Flexible Needle



L. O. Green, D.D.S. Heyworth Bldg., Chicago, Ill.  
Please send me full data on

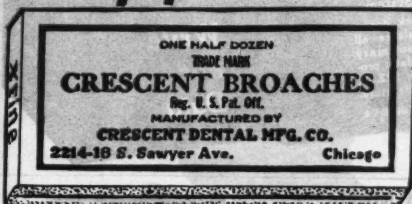
- ☐ Needles  
☐ Green's Antiseptic Ointment For Pyor-  
rhea Treatment

Name \_\_\_\_\_  
Address \_\_\_\_\_

The 2 (in One) Needle







*As it is impossible  
for us to make all  
the Broaches in the  
World, we limit our-  
selves to making only  
the "Best."*

**Sample  
on Request**

**From all  
Good Dental Dealers**



# One Reason

for the increased demand for

## JUSTI P. M. TEETH

may be that Justi P. M. pins have no base metal core to pull out of a thin casing of gold.

Justi P. M. pins are of pure gold and palladium and resist the acids of the mouth. They are baked in the porcelain and are the strongest and most durable form of attachment.

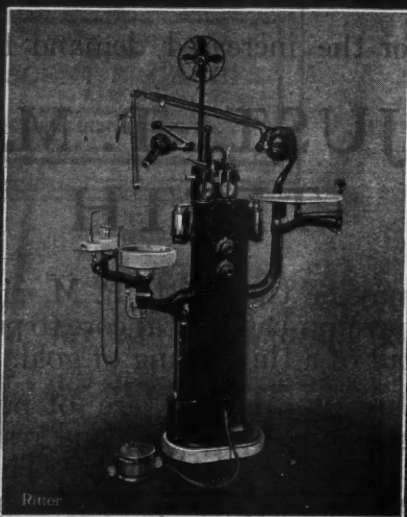
Add to this the excellence of Justi porcelain and true-to-nature molds and you have the full reason for the popularity of Justi P. M. True-to-Nature Teeth

H. D. JUSTI & SON

Philadelphia

Chicago





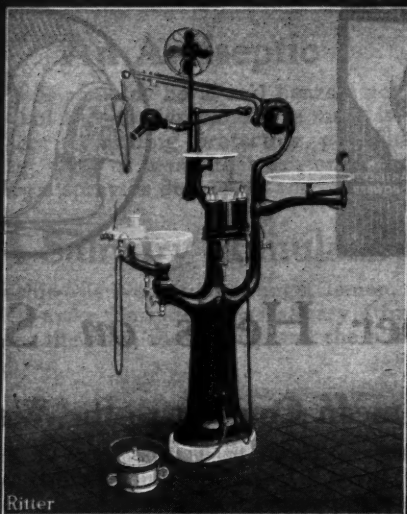
### *Ritter Unit Equipment*

The Ritter dental spotlight, Ritter fan motor or both together as illustrated above, can be mounted on any Ritter Unit by simply removing the back plate and attaching an adapter supplied for the purpose.

*Descriptive folder with illustrations  
gladly sent upon request.*

**RITTER DENTAL MANUFACTURING CO., INC.**  
ROCHESTER, NEW YORK





### *The Ritter Tri-Dent*

The Ritter Tri-Dent is now regularly supplied with attachments for mounting the Ritter spotlight, fan motor or both. An adapter to accomodate these accessories can easily be fitted to any Ritter Tri-Dent now in use.

*Descriptive folder with illustrations  
gladly sent upon request.*

RITTER DENTAL MANUFACTURING CO., INC.  
ROCHESTER, NEW YORK



# CO-RE-GA *on* Dental Plates



## Rubber Heels *on* Shoes

Both mean Comfort to the Wearer

DENTISTS EVERYWHERE  
are giving a small can of CO-RE-GA  
with each plate.

*A wonderful comfort to Tender Mouth Tissues.*

35ct, 60ct and \$1.00 Sizes

from your Supply House  
or Druggist

MADE ONLY BY  
COREGA CHEMICAL CO.  
CLEVELAND & MONTREAL



## An Astringent

Calcium ion makes Formula B an ideal astringent, for use in checking bleeding gums and after tooth extraction.

## An Antiseptic

Formula B contains boric and benzoic acid, thymol, menthol and eucalyptol. These make it an excellent agent for healing, protecting, purifying and deodorizing. Not as a mouth wash only, but as a lotion, gargle spray or douche.

## A Salivary Stimulant

Fruit acids—derived from orange, lemon, grape and apple—make Formula B a salivary stimulant. It increases the flow, the fluidity and the alkalinity of the saliva.

## The Modern Mouth Wash

Formula B is a mouth wash which accords with modern scientific requirements. It is unique in its calcium salts and fruit acids. It omits the poisonous salts of heavy metals, so frequently used before.

You will like it, approve it and prescribe it, we believe.

# Formula B

The Guardian Lotion

Made by the makers of Pepsodent

## One Bottle Free

Please send the coupon for a bottle to test, also for full information. Enclose card or letterhead. Investigate this new creation on which we have studied for years.

The Pepsodent Company,  
1104 So. Wabash Ave., Chicago

Please send me without charge  
full information on Formula B  
and a bottle for test.

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.....



# Overthrow Old Dental Theories

At American Dental Association

Cleveland, Ohio, Sept. 10-14, 1923

*The program quoted below is most revolutionary in history of dentistry. Almost the entire three days program of the Research Section was devoted to different phases of this subject:*

## A Symposium on "EVIDENCES FOR AND AGAINST NUTRITION, OR CALCIFICATION CHANGES OF ENAMEL AFTER TOOTH ERUPTION"

1. "Newer Histological Data on the Structure of Enamel."  
By J. Leon Williams—New York, N. Y.
2. "Three Proofs That the Matrix of Human Adult Enamel is Organic in Nature." (Illustrated)  
By Chas. F. Bodecker—New York, N. Y.
3. "Changes of Enamel After Tooth Eruption."  
By U. G. Rickert—Ann Arbor, Michigan.
4. "Physiological Changes in the Structure of Enamel After Tooth Eruption."  
By Theodore B. Beust—Louisville, Ky.
5. "Permeability of Enamel."  
By William G. Skillen—Chicago, Ill.

## Landmarks in Dental Research Leading to the Establishment of the Calcification Theory of Immunity to Dental Caries

By W. M. RUTHRAUFF A. B., A. M.

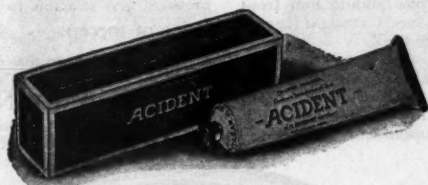
"Landmarks" is a 48-page digest of the research of the last fifty years, culminating in the sensational developments of the past few months. In no other one volume is this material available. "Landmarks" will be sent with the compliments of the W. M. Ruthrauff Company, to any dentist or physician. Use Coupon on opposite page.



# Hardens Soft Teeth Easily Demonstrated

In Treating Soft, Sensitive Teeth

Hundreds of Dental Reports Monthly Verify our Claims



## The Calcifying Tooth Paste

*Formula of W. M. Ruthrauff, A.B., A.M.,  
the pioneer in the Acid Tooth Paste Field.*

**ACIDENT IS THE ONLY TOOTH PASTE  
BASED ON THE NEW HISTOLOGICAL  
DISCOVERIES REPORTED AT AMERI-  
CAN DENTAL ASSOCIATION AT CLEVE-  
LAND—SEE OPPOSITE PAGE.**

year ago dentists said: "Wonderful If True, but contrary to dental teachings."  
Today they say: "You've got it"—"Meets every test."  
Easy to Test—Proof Convincing—Start Today

No 15,946

W. M. Ruthrauff Co.,  
and Arch Sts., Philadelphia, U. S. A.

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Dentist  
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Name.....  
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# DR. JOHNSON'S FORCEPS

for

## Impacted Lower Third Molars

(PATENTED NOV. 1, 1921)

These forceps are a combination of an elevator and extractor.

The elevators are cowhorn and wedgeshaped, and the points are sharp and turned upwards.

No. 1 is for extracting standing back of the chair; the handle is curved, also the beaks.

No. 2 is for use standing in front of the chair; it has a straight handle with right-angle beak.

No. 3 is the same shape as No. 1, and is to be used for extracting, standing back of the chair. It is particularly good for the left side. It is also good for upper third molars.

No. 4 is the same shape as No. 2 and is used standing in front of chair.

There are four strong talking points about these forceps; the cowhorn elevators lift up, the wedge-shaped beaks push backwards, the up-turned beaks push further backwards, and the crossed beaks, making an unequal pressure, give it a side twist.

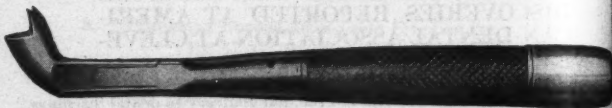
**Price of forceps - \$7.00 each**

Buy of your dealer or  
Send Check with Order

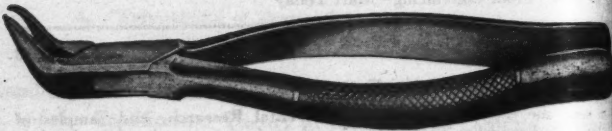
**Dr. A. B. JOHNSON,**  
National Bank Building  
NEW BRITAIN, CONN.



No. 1



No. 2



No. 3

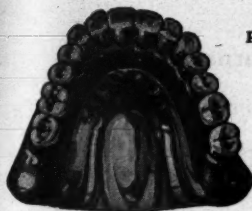


No. 4

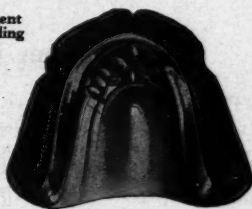


*Dentists everywhere are enthusiastic about this*

# Duplex Gold Denture



Patent  
Pending



Berry's most popular prosthetic achievement! An 18 karat Gold Plate, 27 gauge, heavily reinforced

Upper plate—\$25

Lower plate—\$22

## Construction

Trubyte teeth, granular gum, and Ash rubbers. Entire palate of upper and greatest area of lower denture is of 27 gauge 18 K. gold, securely anchored to the vulcanite by a series of retentions that permit a beautifully smooth finishing line between gold and vulcanite.

## Fit

The periphery of muscle-trimmed impression is accurately reproduced in the vulcanite, thus securing the "valve" peripheral fit with the rubber—a result almost impossible with metal.

## Instructions

Send perfect impression and bite. We will send the gold base, with teeth set up in wax, to be tried in the mouth before vulcanizing. We are prepared to furnish this class of work to laboratories not equipped to do it.

*The* **BERRY**  
Dental Laboratory Co.



EQUITABLE BUILDING

ST. LOUIS, MO



*A Friend in Need*  
is  
*A Friend Indeed*

**One of your Journals prints:**

"The Medical Protective Company of Fort Wayne, Ind., is regarded by shyster lawyers who bring malpractice suits against doctors, about as the Pinkertons are regarded by absconding cashiers who seek hidden places after they made embezzlements. Except for the reputation this Company has made in the defense of physicians and dentists there would be many times as many malpractice suits as there are, and yet there are enough of them.

"The protection alone to one's reputation is worth the cost of a policy issued by the Company."

**One of your Colleagues Wrote:**

"This is one of the times when words fail to express the satisfaction of my feeling for the Medical Protective Company. It makes me feel as one does when great sorrow overtakes you, and along comes a person that was only given passing consideration previously, and he aids you with money, gives you advice, consideration and sympathy.

"The Medical Protective Company of Fort Wayne has proven the old adage a 'Friend in need is a friend in deed.'"

*The Medical Protective Company*  
of  
*Fort Wayne, Indiana*

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## Safeguarding the Mouth Against Infection

is an established principle in modern dental practice. The importance of using only surgically clean materials within the mouth is universally recognized.

**Dental Floss Silk is one of the accessories used by the dentist for the integrity of which he is largely dependent upon the manufacturer.**

Used either as ligatures or for prophylaxis dental floss is often drawn beyond the free border of the gums and unless the dentist knows that the floss he is using is surgically clean he realizes that possible infection of the delicate gingival tissues is openly invited.

*New Era Dental Floss is Surgically Clean.*

It is prepared from the best materials under strict surgical methods and is maintained in a condition of surgical cleanliness in glass bottles under rubber washer and metal top with cut-off. *New Era is the only floss put up in this way.*

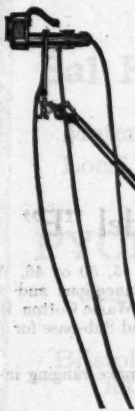
The cost however is no greater than for the ordinary kinds.

Order through your dealer. Specify New Era and you will get it.

Johnson & Johnson Dental goods are sold by leading dealers in every country in the world.

JOHNSON & JOHNSON

New Brunswick, N. J., U. S. A.



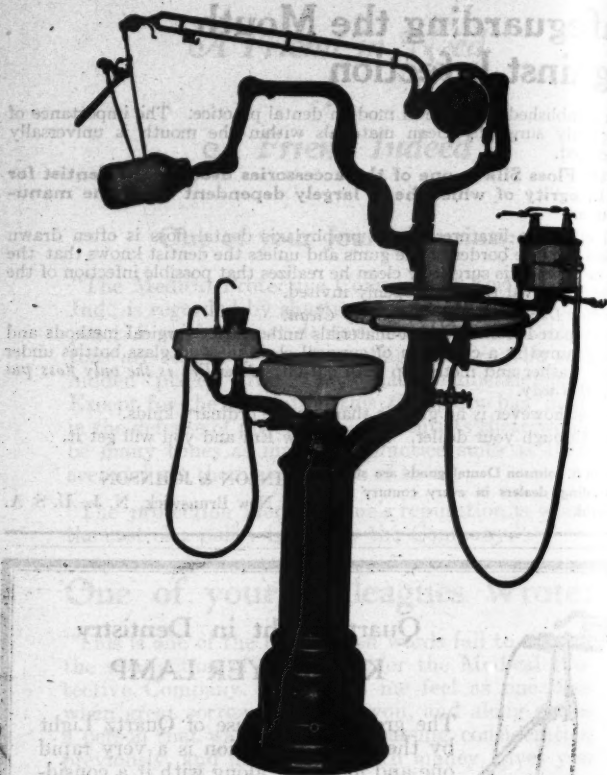
### Quartz Light in Dentistry KROMAYER LAMP

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Hanovia Chemical & Mfg. Co.  
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This model consists of Fountain Cuspidor, either No. 55, 50 or 46, Weber Spray Heater, Automatic Cut-off with tubing and connections and Chip-blower; Bracket Table; Auxiliary Table; Bunsen Burner; Waste Cotton Receptacle; Adjustable Dental Light; pipes for Gas and Air and Sub-base for either concealed plumbing or pipes above the floor.

Write for prices and illustrations of other Models we make ranging in price from \$190.00 to \$240.00.

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5 seconds to apply band. Curved band (1-2500 in. thick) tough and plastic.



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Powder and Liquid  
You mix 'em—Price \$3.00*Manufactured only by***E. C. WACKLER DENTAL MFG. CO.****MILWAKEE, WIS., U. S. A.****REMOVE DECAY AND PLACE DEVITALIZING FIBRE.****REMOVE FIBRE DRILL OUT PULP CHAMBER, BUT DO NOT REMOVE PULP TISSUE FROM ROOT CANALS****PERMANENT FILLING CEMENT PULP SEAL****NOW CREDIT YOURSELF WITH A FEW BROACHES AND A HAPPY PATIENT.**



Upper

\$20.00

Lower

\$18.00

Complete



Including Trubyte Teeth, Walker's or Gould's Granular Gum—hand festooned—lingual carving to form tooth anatomy, trial, etc.

No extras

## THE MASTER DENTURE

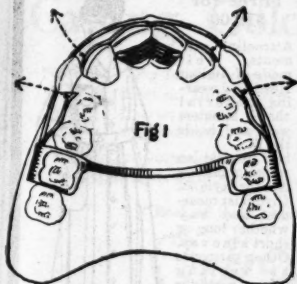
*This plate is creating a sensation.*

Orders and re-orders are pouring in from all over the country. *Distance makes no difference.* We have customers in far distant states who are glad to wait for this Master Denture at this special price.

The entire palate is swaged of 28G. 18K Gold—well wired, looped and reinforced. (Cast palate \$5.00 extra.) The buccal and labial surfaces are produced in vulcanite, thus insuring a perfect "valve" peripheral fit. These dentures are beautifully and scientifically made. *We stake our reputation on them.*

Send perfect impression, wax bite and shade. The metal base, with teeth set up in wax will be sent to you for trial before vulcanizing.

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Appliances cost from \$10.00 to \$30.00 which includes continuous service throughout the operation and any needed repairs or changes.

We follow the case through with you to its successful completion. *If you follow our instructions you cannot fail.*

Send full upper and lower impressions.

*Write for complete laboratory price-list and book of colored illustrations*

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before filling, if you would retain your reputation as an up-to-date practitioner.

GILBERT'S NON-CONDUCTIVE TOOTH LINING has been used for years by many of our foremost dentists.

It is a non-conductive fluid, which, when brushed over the surface of the cavity, hardens in a few seconds, leaving an indestructible film which protects from thermal change as well as from direct contact with the filling material.

Price, trial size.....\$ .35  
Regular size, glass stoppered  
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All goods returnable if not satisfactory. If your dealer does not carry them in stock, we will mail them on receipt of price.

# Dentite

GILBERT'S

HAS NO SUPERIOR FOR HOLDING ARTIFICIAL DENTURES IN PLACE.

If it is a perfectly fitting new denture, you need it, as the patient more readily becomes accustomed to the new conditions.

If an old denture has become loose from absorption or any other cause, its use gives comfort and confidence to patients, because they soon learn that the teeth will not loosen.

When you sneeze, no denture is absolutely secure without Dentite.

Price per package \$.50 and \$1.00.

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### For the Operating Room

To sterilize rubber dam, mouth mirrors, gutta-percha points, brushes and rubber cups for cleansing teeth, silk ligatures, etc.

### For the Patient at Home

To sterilize the tooth brush, plates, removable bridges, floss silk, toothpicks, tongue scraper, etc. Price \$5.00; 20% discount to the profession. Through your dealer or direct. Write for literature.

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Mount Vernon N. Y.

Sales representatives wanted

## Assistant's Gowns \$3 <sup>50</sup>/<sub>each</sub>

Three for  
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Attractive garments, well made of Indian Head long wearing material that launders well and holds the fit.

Sent prepaid on receipt of price. Ask for Style 58. Give bust measure and say whether long or short sleeves. Other garments at varying prices. Send for catalog. Mention dealer.

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**FORMULA** For inlay abutments, Hart or Tinker three-quarter crowns. Melts with ordinary blowpipe.



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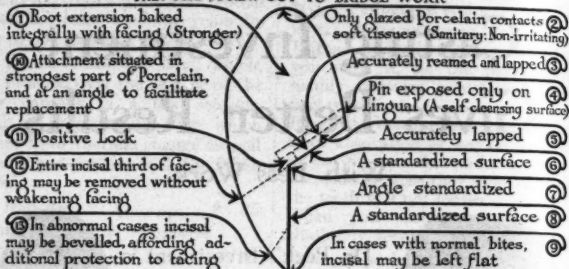
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- ① Root extension baked integrally with facing (Stronger)
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*Patent Applied for U.S.A., Canada and Principal Foreign Countries*

FOR COMPLETE DESCRIPTION, INDICATIONS, TECHNIQUE AND ADVANTAGES

**FULLY ILLUSTRATED**

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MADE SUCCESSFUL

SUCH AS

Cases Where Teeth Are Extremely Irregular  
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Six Front Teeth or Less Remain in the Upper Jaw and All Back  
Teeth are Missing

*These are the meanest conditions of mouth restoration that confront the dentist.*

THE DIFFICULTIES OF THE ABOVE TYPE ARE EASILY OVERCOME BY  
THE USE OF ONE OR MORE KAYLE ATTACHMENTS ON CLASPS.

Regularly a clasp is rigidly connected to its denture and naturally moves in unison with it, up and down when masticating, thus constantly wearing and straining teeth clasped.

On the contrary, the Kayle on a clasp allows for individual and natural movement of tooth, and as clasp need not be opened up in passing an angle, perfect retention of clasp on tooth is secured, hence the many fine results of suction attained and the even seating of dentures.

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in prosthetic work lies in holding both rubber and teeth in a firm and unyielding grip during vulcanization and through the subsequent cooling period.

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IMPRESSION PLASTER

X STANDARD SET PLASTER

VULCANIZING STONE

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To Dr.....

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The New Style  
hermetically sealed  
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Box of 10 bottles \$10.00

For two percent. solution, dissolve one N. S. tablet "E" or one N. S. tablet "T" in one cc. Ringer solution.

The N. S. tablet "E" is preferable for mandibular injections and for anesthesia when pronounced ischemia is desired.

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ALKALOL does not have to be taken for granted.

A practical test will bring prompt conviction.

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Manufacturer of Dental Gold and Specialties

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**A new NON-NARCOTIC Drug**

**ANALGESIC  
SEDATIVE and HYPNOTIC**

*Excellent results in painful affections, post-operative pains after extractions, pains of pulp, periostitic and periodontal pains, and in pre-operative work as a sedative for reducing the sensitiveness to pain in sensitive, nervous patients.*

*In larger doses it will not only quiet pain but produce sleep.*

Bottles of  
12 and 50 Tablets (2½ grs)

**DOSAGE:** As sedative,  
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analgesic/hypnotic,  
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*Supplies for trial and Literature will be furnished on request*

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**Upper or Lower \$2.00  
per box. Half Doz.**

**"Why Pay More"**



1905-1923

**EUREKA SUCTION CO.**  
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## French's Dental Plasters

Still lead in quality and economy. We now have the

## WHITENESS

that the profession demands. We have always had the practical qualities. During the war we were unable to furnish the color.

### NOTE

Regular: for general work  
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Slow Setting: for vulcanizing.

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EST. 1844 INC. 1920



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**T**HE Roscinian Linings are Metallic Linings of 24K gold or aluminum to be used on all new rubber dentures, counter acting the deleterious effects of the vegetable product caoutchouc, on the palatal tissues contacting with a denture in the oral cavity; especially valuable in preventing heated, spongy gums; producing and sustaining a strictly *oral hygiene*. The mechanical effect is really beautiful and your professional suggestion is gladly paid for.

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| The Roscinian Gold Lining XX (Our Standard) | \$5.00 | { Sufficient for One<br>Upper Denture<br>Sufficient for Four<br>Upper Dentures |
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Q If necessary, send your lining cases to our laboratory for the Roscinian Linings to be put on, where your denture will be made and finished, representative of the highest art in this branch of prosthetic dentistry.

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Your patient would as soon have you use bright green rubber for the gum shade on his plate as to use a pink that was off color.

Your plates must be as near Nature as possible—which means you must use a superior rubber.

### Eugene Doherty's New Improved Pink Rubbers

in light, medium light and deep shades, fully answer every possible requirement in the making of gum shades for plates. Not only do they make the most natural plates, but they are tough and durable to a remarkable degree.

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*Address all correspondence to Dept. B.*



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This page is restricted to help and positions wanted, practises wanted and practises for sale. The rate is 10c per word, initials and figures each counting as a word, each initial and figure of the address also counting as a word, as well as the heading.

Copy must be in the hands of publisher by first day of month preceding date of publication. Cash must accompany all orders.—ORAL HYGIENE, PITTSBURGH, PA.

**UNUSUAL OPPORTUNITY**—for one or more high class men or women to specialize in connection with well established practice in Los Angeles, Calif. Answer in detail as to capability, age, financial requirements, etc. "S" ORAL HYGIENE, Pittsburgh.

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**FOR SALE**—Fifteen thousand dollar practice in Pennsylvania town of twenty thousand. Wealthiest town per capita in the States. Strictly ethical. "T" ORAL HYGIENE, Pittsburgh.

**FOR SALE**—A fully equipped dental outfit and furniture for waiting room. Must be sold to close up estate on account of death of former dentist. Office and rooms can be rented reasonably. Located in Kittanning, Pa. J. A. Myers, R. D. 1 Kelly Sta., Pa., F. W. Klingensmith, Star Route, Leechburg, Pa., Administrators.

**FOR SALE**—North Dakota dental practice in Red River Valley—county seat—population 900. Most fertile farming district in the land. Inquire M. F. Patterson Dental Supply Company, Fargo, N. D.

**WANTED**—Polisher with commercial laboratory experience. Stanton M. Collins, Uniontown, Pa.

**WANTED**—Position by an ethical dentist, registered in Florida, as assistant. East coast preferred. Will consider purchase of interest in the office if mutually agreeable. "O", ORAL HYGIENE, Pittsburgh.

**WANTED**—Graduate dentist, Kentucky license, as operator. Permanent. Good pay. Dr. A. McKechnie, Louisville.

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Five thousand dollar cash dental practice, with or without equipment. Established fourteen years. Rent low. Price reasonable. Good reason for selling. Address Dr. R. F. Campbell, Bad Axe, Michigan.

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**WANTED**—Position with dental supply or specialty company, west or middle-west preferred. Travel if necessary. Quitting ideal practise account eye-strain. "U" ORAL HYGIENE, Pittsburgh.

**MINNESOTA** dental office for sale in one of the richest mining towns in the heart of hunting and fishing country. Population over twenty thousand. Cash practice; established seven years. Less than invoice takes it. Moving to California. Address 105; care M. F. Patterson Dental Supply Company, Duluth, Minn.

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**FOR SALE**—In city of twenty thousand in northeastern Pennsylvania, six thousand dollar cash practice. Four rooms fully equipped, two modern chairs and fountain cuspidors, gas, electricity and steam heat. Rent forty dollars monthly. Reason for selling—Bright's disease. Price fifteen hundred. "G.W." ORAL HYGIENE, Pittsburgh.

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Dentists from local and distant states send their relatives, friends and employees here for training because they know they will return well grounded in the fundamentals of mechanical dentistry and be found able to go to work in the laboratory. Board and lodging arranged for in advance. General Course or Post Graduate Course. Send for Catalog D. West Side YMCA School of Mechanical Dentistry, 318 West 57th Street, New York, N. Y.

**COLLECTIONS**—Dental accounts only. Anywhere U. S.; no collection—no charge. Debtors located. References: Continental & Commercial Bank, Chicago. Edward E. Collins, Hartford Building, Chicago.

**QUICK COLLECTIONS**—Send us your accounts today and get "Quick Results." Collections made everywhere. Wm. H. Dodd, 87 Nassau Street, New York. Established 30 years, one address.

**FOR SALE OR RENT**—Exceptional opportunity, dental practice, equipment and office, built especially for dental office in New Jersey. Fine corner location, established thirty years, good growing town, large area. Retiring, ill health. "Jersey", ORAL HYGIENE, Pittsburgh, Pa.

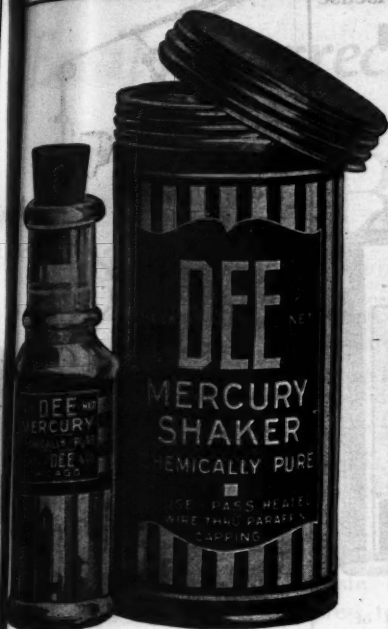


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**ABSOLUTELY NO LOSS OR LEAKAGE**

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*You Will Like It*

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## Trench Mouth Disease



For troublesome cases of Pyorrhea and Trench Mouth Disease many successful dentists are using Stearns' Astringosol with great success.

Severe Pyorrhea cases after two years of unsuccessful treatment have been treated by dentists with Astringosol and discharged as cured. Later examination showed no recurrence.

Also useful in the treatment of receding, inflamed, soft, spongy or bleeding gums.

Manufactured by  
**Frederick Stearns & Co.**  
 Manufacturing Pharmacists  
 Established 1855  
 Detroit Michigan

## No. 11 Jack Rabbit Engine with All Cord Arm and Doriot H. P.

Engine as shown \$40.00  
 All cord arm, - 25.00  
 S.S. White Doriot 20.00  
**\$85.00**



### One Turn of the Knob

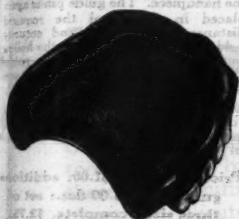
This type has proven one of our best sellers, running very quiet and smooth, with plenty of power. The hand points to a small switch, built in motor. One-half turn of the knob instantly reverses motor, giving four speeds forward or backward.

Engine complete includes extra belt, oil can, etc. New catalogue showing various types of Jack Rabbit engines and other goods we manufacture now ready.

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 DENTAL MFG. CO.  
 414 and 423 West Liberty Street  
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 Formerly T. M. CRUTCHER  
 DENTAL DEPOT, Inc.



# Easily corrected with B. P. P.



It is estimated that about seventy-five per cent of ill-fitting dentures lack proper peripheral contact. This is easily corrected with B. P. P., as illustrated.

B. P. P. is a non-elastic, plastic, vulcanizable paste and is used for refitting artificial dentures without remaking plate.

Here is the technique: Place paste on back of plate and press to place either on plaster model or in patient's mouth; the excess is forced out and only enough remains on plate to compensate for defect. Flask with one pour—no opening of flask necessary. Vulcanize same time and temperature as vulcanite rubber.

For sale by all dealers  
in dental supplies.

Enough for six to ten  
plates.

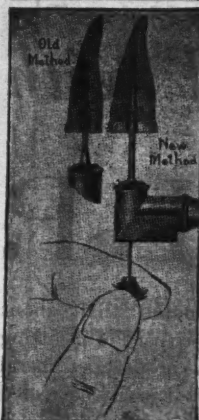
Price \$3.50 per pack-  
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If ordering direct send money order or draft

Address Dept. "H"

**Pioneer Manufacturing Company**  
**Macon, Missouri**





This bur is made in three sizes, Nos. 4, 5 and 6. No. 6 can be used for practically all upper teeth. Nos. 4 and 5 can be used for all lowers and small upper laterals.

## Ever Perforate the Side of a Root?

Here's something that prevents doing it—and that enables you to perform an otherwise difficult operation *quickly and easily*.

You insert the guide pin (shown in the cut) in the root canal the distance required for the post. Remove the guide pin from the canal placing it in the *hollow bur* which has previously been fitted in the hanopiece. The guide pin is again placed in the canal the required distance for the post and securely held with the fingers while the hollow bur revolves around it and is *guided* through the *center* of the canal, preventing perforation.

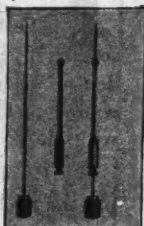
When you use Dr. Craig's Non-Perforating Root Canal Drill you will say: "Why didn't somebody think of this before?"

Price, complete, \$1.00; additional guide pins, \$1.00 doz.: set of three sizes, complete, \$2.75.

*Direct or through your dealer—*

**Dr. Joseph E. Craig**

738 Broadway, Gary, Indiana



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Dear Mr. Andrews:

If it's true that

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TRADE MARK

**Tooth Powder**

is an unusual tooth-powder—true that it may also be dissolved in water and used as a mouth wash, I want to know about it.

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Dr. ....  
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with your plaster will make the latter as hard as is necessary to resist flask pressure in vulcanizing, and desirably hard for construction casts in Orthodontia, bridge and like work?

Remember that Plastic Granite, when used straight, sets as quickly as plaster, and to stone-like hardness.

Your dealer will supply you with Plastic Granite under a positive guarantee that it may be returned if not found satisfactory.

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Is free from noxious ingredients. It may not only be used for masticating surfaces but equally well for contours in approximal cavities. Since the oral fluids seem to have almost no effect on Harvardid, its translucency and esthetic appearance with its excellent qualities make it preferable to all other filling materials.

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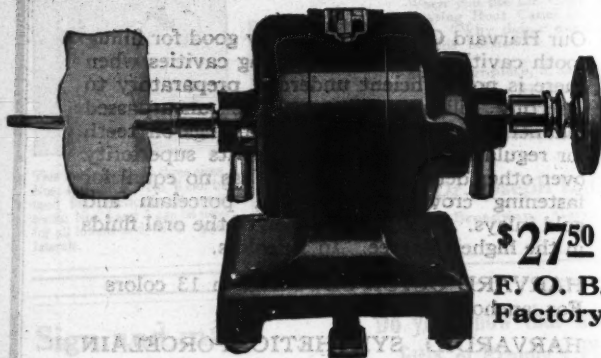
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Our signature guarantees and is on every package.

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**SPECIFICATIONS AND EQUIPMENT**—Motor—1-8 H. P. Universal. Speeds—Five, 2000 to 6000 R. P. M. Controlled by rheostat in motor base. Shaft tapered at both ends. Will take Ritter chucks or special 5-32" Goodell-Pratt chucks. Complete equipment includes wheel arbor and emery wheel, tapered spindle and rag buff, 8' cord and attachment plug.

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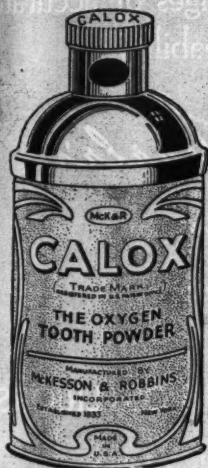


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*Milk of Magnesia*



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You can make any tooth brush reach the inside surfaces of the back teeth you try hard enough.

But the curved handle of the Pro-phy-lac-tic Tooth Brush makes it easy to brush the hard-to-reach places.

The tufted bristles reach between the teeth and down into depressions made by crooked teeth without any special effort on your part.

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